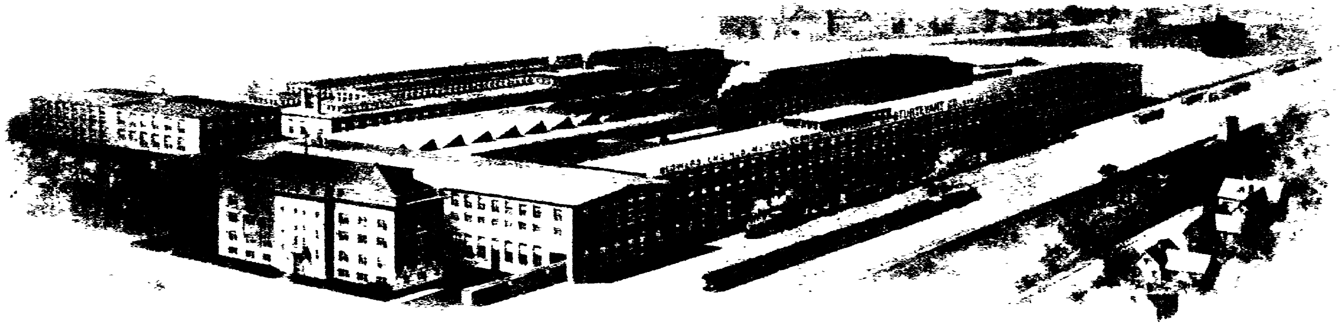

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Largest Builders in the World of Fans and Allied Products.

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Fans, Heaters and Air Washers

A BOOK OF INFORMATION FOR
ARCHITECTS AND ENGINEERS
Containing Complete Tables of Capacities and
Power Requirements of All Types and Sizes
of Sturtevant Fans, Heaters, and Air Washers

B. F. STURTEVANT COMPANY
HYDE PARK :: BOSTON :: MASSACHUSETTS
AND ALL PRINCIPAL CITIES OF THE WORLD

Publication No. 250

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B. F. Sturtevant Company

PURPOSE OF THIS BOOK

With the steady development of the use of fans, heaters, and air washers for all industrial purposes, there has sprung up a need for a book that will give in concise form the information required to properly select this apparatus to meet given requirements. Not an abbreviated compilation suitable for use only for a limited number of applications, but one that will give to the architect or the engineer information covering a wide range of types and sizes adapted to every industrial need.

In the compilation of this book, the B. F. Sturtevant Company have purposely avoided devoting large space to theories which are probably familiar to most architects and engineers. They have instead, devoted the book to actual information on performances.

The B. F. Sturtevant Company, building the most complete line of fans and allied apparatus as well as the largest quantity, are in a position to supply this apparatus to meet any requirements and in this book will be found the principal dimensions, capacities and horse powers over a wide range of service of their complete lines.

Knowing the requirements, it is an easy matter to select the type and size of apparatus to fulfill them to the best advantage, and also to find the principal dimensions that will aid in making the preliminary layout.

A careful reading of the explanation of tables at the beginning of each section will show clearly the basis upon which the tests were made and will aid greatly in selecting the proper apparatus.

It is with the desire to aid those whose work it is to select and apply apparatus to various industrial problems that the B. F. Sturtevant Company have gone to the great expense entailed in the publication of this book. If our friends to whom this book is loaned find it of assistance, then its object is fulfilled and the expense is warranted.

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DEFINITIONS

Blower or Double Inlet Fan. A Centrifugal Blower is a cased fan wheel having two inlets for the admission of air, one on either side and each concentric with the shaft.

Exhauster or Single Inlet Fan. An Exhauster is of much the same construction as a Blower, but has only one inlet, and that usually in the side farthest from the pulley, engine, turbine or motor.

Overhung Wheel Fan. An Overhung Wheel Fan is one where the wheel is overhung upon the shaft, that is, where both of the bearings supporting the shaft are on one side of the wheel. This is usually arranged so that the pulley runs between the two bearings, and the shaft is extended through the fan casing to take the wheel. Exhausters are nearly always of the Overhung Wheel type, except in the larger sizes.

Overhung Pulley Fan. An Overhung Pulley Fan is one in which there is a bearing on either side of the fan wheel. The shaft being extended through one of the bearings to take the pulley which is overhung upon it. Blowers and large Exhausters are usually of the Overhung Pulley type.

Discharge. The discharge of a Blower or Exhauster is designated by the direction in which the air is delivered from the casing; as for instance, bottom horizonal discharge or upblast discharge.

Hand. The hand of a fan is that which designates upon which side of the casing the pulley or other driving apparatus is located, when one is facing the outlet of the fan. A right hand fan is one having the pulley, engine, turbine or motor on the right as one faces the outlet, and a left hand fan is one having the pulley, engine, turbine or motor on the left as one faces the outlet. An exception to the above occurs when the pulley, engine, turbine or motor is placed in the inlet of a single inlet fan, in which case the housing itself may be left hand, and yet the pulley, engine, turbine or motor may be on the right. In such cases, which are very infrequent and usually impracticable, full explanation should be given to avoid confusion.

With up or down angular discharge also the hand is determined by the location of the motor, turbine, pulley or engine, when the observer stands at the discharge end of the fan.

Full Housing Fans. A fan with full housing has a complete scroll or casing.

Three-quarters and Seven-eighths Housing Fans. When the lower portion of the scroll is dispensed with, and the fan is located upon a foundation which serves the purpose of a lower part of the casing, the fan is called three-quarters housing fan, in the Steel Plate type, and seven-eighths housing fan in the Multivane type.

All dimensions given in this book are for approximate use, and should not be used for foundation drawings, etc. Blue Prints containing dimensions will be furnished for this work.

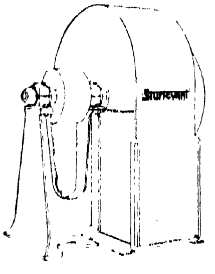
C.F.M. = Cubic feet per minute.
R.P.M. = Revolutions per minute.
F.P.M. = Feet per minute.
S.N.D. = Static no delivery.
O.S. Dia. = Outside diameter.
Steam Pressure = Pounds per sq. inch.

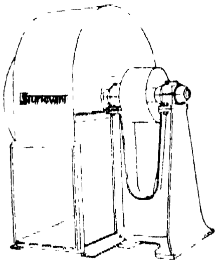
All dimensions given in inches.

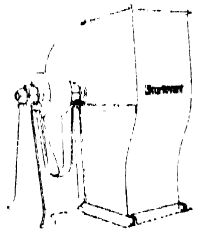
HAND AND DISCHARGE OF FANS

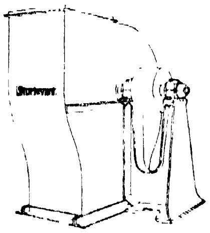
STANDARD TYPES FOR BELT DRIVE

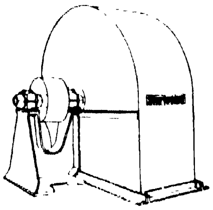
Overhung Wheel

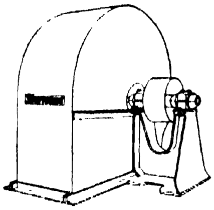

Bottom Horizontal Discharge
Left-Hand

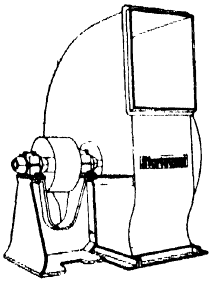

Bottom Horizontal Discharge
Right-Hand

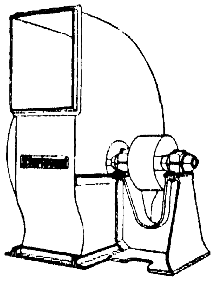

Up Blast Discharge
Left-Hand


Up Blast Discharge
Right-Hand

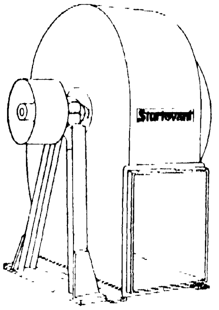

Down Blast Discharge
Left-Hand

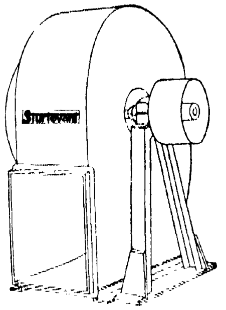

Down Blast Discharge
Right-Hand

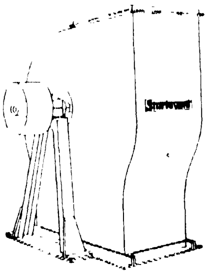

Top Horizontal Discharge
Left-Hand

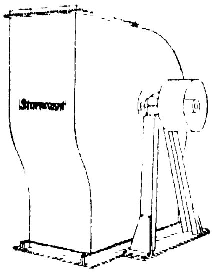

Top Horizontal Discharge
Right-Hand

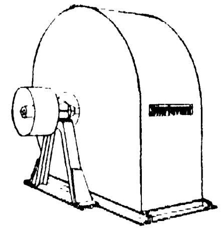
Overhung Pulley

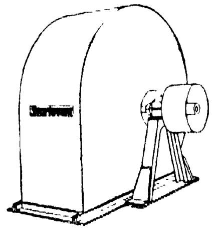

Bottom Horizontal Discharge
Left Hand

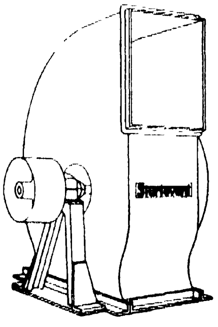

Bottom Horizontal Discharge
Right-Hand

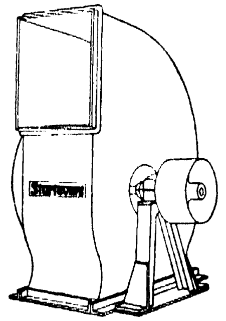

Up Blast Discharge
Left-Hand


Up Blast Discharge
Right-Hand


Down Blast Discharge
Left-Hand


Down Blast Discharge
Right-Hand


Top Horizontal Discharge
Left-Hand


Top Horizontal Discharge
Right-Hand

General Explanation of Tables

The free delivery of air from every fan as actually installed is unavoidably retarded by the frictional resistance of the surfaces with which the moving air is in contact and by changes in its velocity and direction of motion.

In any system of conduits, the sum of all these resistances is always the same when a given volume of air, or gas at a given density, is flowing, and is generally called the "maintained resistance" of the system. It is usually referred to in terms of the static pressure required to overcome the "maintained resistance," and is measured in inches of water.

The "maintained resistance" of any system varies directly as the square of the volume delivered through the system and directly as the density of the air or gas handled.

All the capacity tables in this book give the speed and shaft horsepower required to deliver any volume against any maintained resistance within the capacity of the fan referred to.

All tables unless otherwise stated are calculated for air having a density of .075 lbs. per cubic foot, which is the density of normal air at 65° F. and at sea level, or what may be called standard air. The calculations are based in all cases upon the results of carefully conducted tests made in our testing laboratory. The volumes were determined from velocities measured, unless otherwise stated, in a pipe the size of the fan outlet, by means of a pitot tube of the pinhole form. A sufficient number of readings of the velocity head were taken at properly located points in the pipe to determine the average velocity accurately. The static pressures were read from the static side of the same pitot tube and averaged.

EFFECT OF TEMPERATURE AND ALTITUDE

The maintained resistance against which any fan at a given speed will deliver a certain volume, varies directly as the density of the air or gas handled, and the shaft horsepower required, also varies directly as the density.

Whenever it is desired to select a fan to handle air of a greater or less density than .075 lbs. per cubic foot owing to a different temperature, or altitude, or gas of a composition different from air, the above facts must be applied in using the tables.

Since the pressure varies directly with the density it follows that the table pressure under which the fan is to be chosen for a given volume at a given speed must bear the same ratio to the required pressure as does air at "normal" density to the density of the air or gas being considered. For instance, if the density of the air to be used is .5 that of standard air, then the pressure actually obtained will be only .5 of that shown in the tables. Therefore, the fan must be picked under a pressure such that .5 of it will be the pressure required, e.g., if 1″ is the desired pressure with air whose density is .5 of standard air, the fan must be picked under the 2″ column, then the actual pressure will be 1″. Usually the reciprocal is used in finding the table pressure, that is, for the above, standard air is two times heavier than the air under consideration and the table pressure equals 1 x 2 equals 2″.

It is obvious that the horse-power shown under the table pressure, which is, of course, the horse-power for air at .075 density, will be too high by the same ratio as that of the densities, because the volume and speed are the same and the density, and in consequence the pressure, is the only factor that has changed. Therefore, the table horse-power must be multiplied by the ratio of density to obtain the true horse-power. In the above example the actual horse-power would be .5 of that shown in the table under the 2″ pressure column.

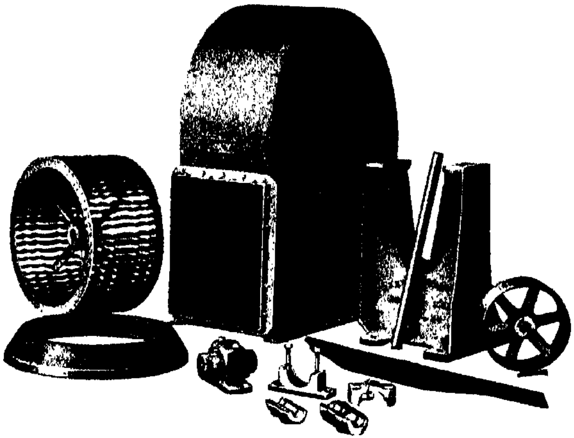
When choosing a fan to operate at high efficiency, not only must a proper size be used but in addition the fan must run at an efficient speed. As an aid to customers we have placed black lines under certain volumes and horsepowers, and one of the performances above the black underline in any particular column should be chosen.

MULTIVANE FANS

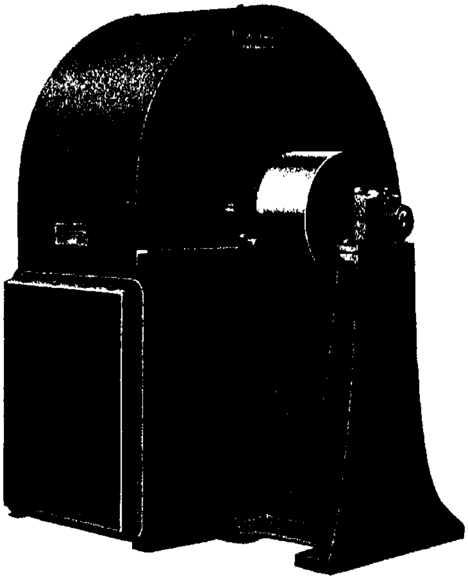
Design 2

Dimensions, Capacities, Horse Powers

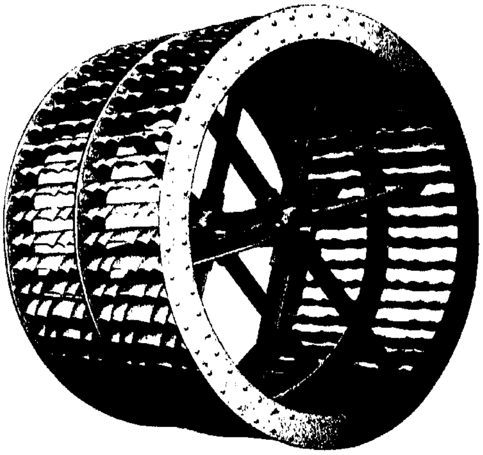
Multivane Fan—Design 2



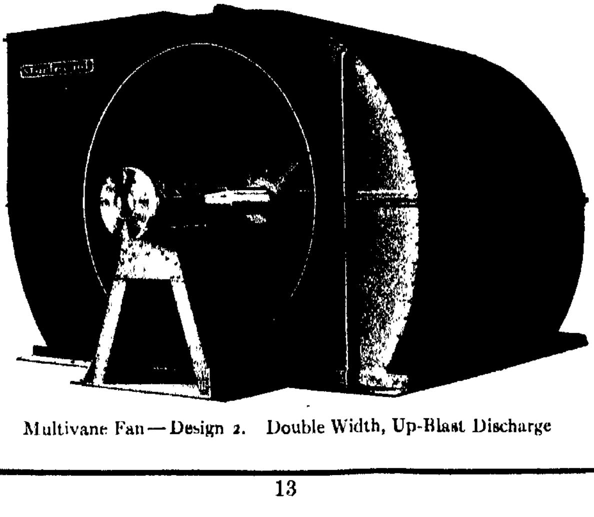
Multivane Fan—Design 2. Dissembled



Multivane Fan—Design 2. Single Width, Bottom Horizontal Discharge, Overhung Wheel



Multivane Fan—Design 2



Multivane Fan—Design 2. Double Width, Up-Blast Discharge

MULTIVANE FAN—DESIGN 2

SPECIFICATIONS

General. There shall be furnished a No......, design No. 2, Sturtevant Multivane Fan. It shall be made (single or double) .... inlet, (single or double)........ width, (right or left)....... hand,......... discharge and have (full or ¾) .... housing. The wheel shall be not less than ....." diameter. The outlet shall be ...." by .....", the diameter of the inlet shall be ....." . The total height of the fan housing shall be .....", the width in direction of shaft ......", and the length transverse to shaft .....".

The fan shall have a capacity of .... cubic feet per minute against a resistance of ....." water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately ...... R.P.M., requiring approximately ..... B.H.P.

Housing. The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and roundabout sheet shall be made of No. 11 gauge for fans above 45" high. The smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

Wheel. The blades of the wheel shall be made of refined steel plate and spooned with spherical depressions to efficiently handle the air. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template, as well as the blades themselves, to insure the proper position of each blade in the wheel. For diameters above 46", a third annular ring shall be placed in the center of the wheel, and two hubs used instead of one. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

Bearings. The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbit, containing upwards of 85% tin, bored and scraped to exact size.

Shaft. The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

MULTIVANE FAN—DESIGN 2

EXPLANATION OF SPECIFICATION REQUIREMENTS

Noise. Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

Distribution of Work and Stresses. The spherical depressions grip the air and prevent it from slipping along the blade to the side of the wheel opposite the inlet, thus distributing the work along the entire length of the blade.

The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

Strength and Rigidity. Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bulging or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets.

Additional Strength in Larger Sizes. In sizes No. 10 and above the center annulus carries out to a much greater degree the strengthening feature of tying the blades at the center, thereby doing away with any chance of bowing out. That is, every blade in the wheel is tied down at the center. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

Wearing Qualities. Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

Multivane Fan—Design 2

EXPLANATION OF TABLES

The capacities in the following tables are measured in a pipe having an area fifty percent greater than the fan outlet. The proportions of these fans are such that the outlet velocities are high at normal load. By expanding from the outlet to a fifty percent larger pipe a part of this velocity is transformed into useful pressure, thereby increasing the efficiency of the fan.

In cases where this expansion is not used a correction should be made by reducing the maintained resistance from the value at the head of the tables by an amount equal to forty five percent of the velocity head in the fan outlet.

For further information we refer you to the general explanation of tables at the front of the book.

Multivane Fan—Design 2

Single Width

APPROXIMATE WEIGHTS

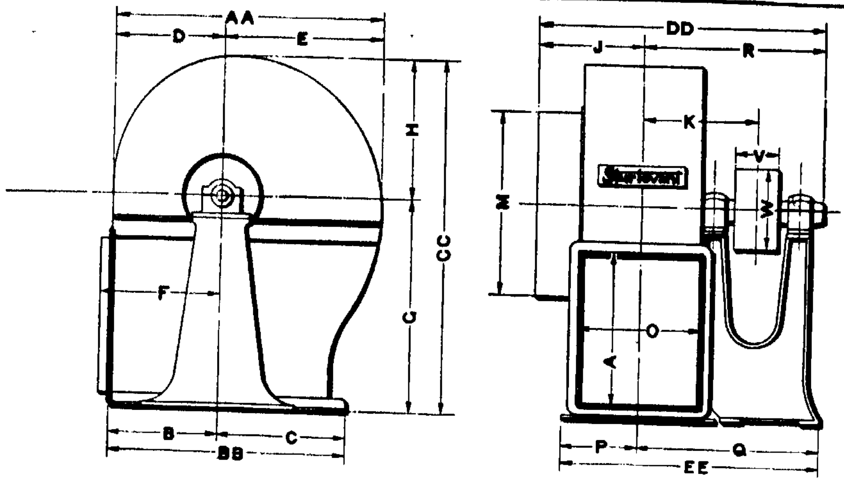
Size	Overhung Wheel	Overhung Pulley
FULL HOUSING		
2	225	
3	320	
4	470	
5	640	
6	840	
6½	1040	
7	1240	
8	1800	1260
9	2440	1750
10	3000	2450
11	3675	3050
12	4350	3700
13	5100	4600
14	6050	5350
15	7350	6650
16	8850	7800
17	10400	9360
⅞ HOUSING ONLY		
18		8950
20		11800
22		15300
24		18630
26		23700

Single Inlet

Multivane Fan—Design 2

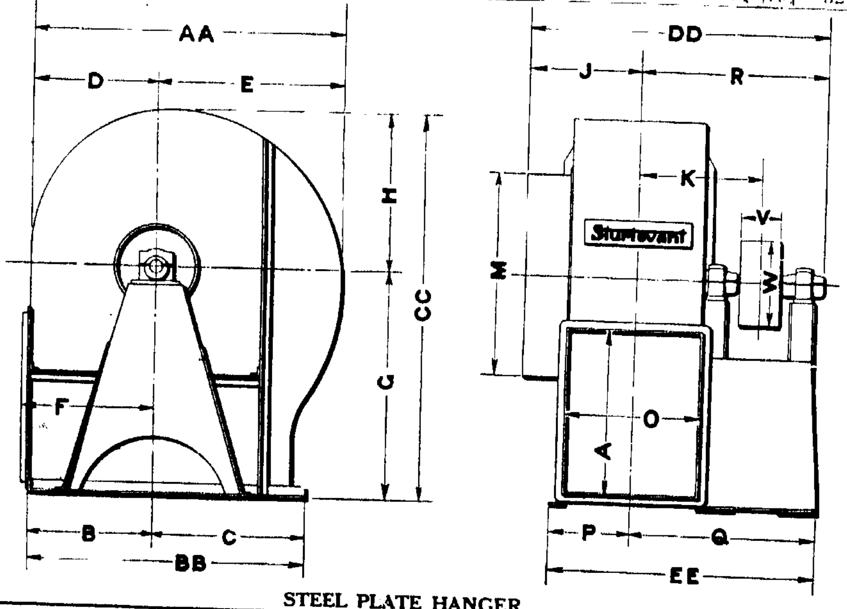
Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**



CAST IRON HANGER

Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts Hanger	Anchor Bolts Fan
2	10 1/8	7 1/4	10	7 1/4	11 1/8	9	15	9 9/16	7	10 7/8	12 3/8	8 5/8	5 5/8	18 1/8	18 3/4	3 1/2	6	19 1/8	17 3/4	24 9/16	25 3/4	23 3/4	11 1/4	1 1/4	1/2	1/2
3	12 7/8	9 5/8	12	9 5/8	14 1/8	10 7/8	18 1/2	11 7/8	8 3/4	13 1/8	15 1/2	10 5/8	7 1/8	21 5/8	22 1/4	4	7	23 3/4	21 5/8	30 3/8	31	28 3/4	14 5/8	1 1/4	1/2	1/2
4	15 1/8	11 5/8	15	11 5/8	17 1/8	12 7/8	22	14 1/8	10 1/4	14 5/8	18 1/2	12 5/8	8 1/8	24 1/8	24 3/4	5	8	28 1/4	26 5/8	36 3/8	35 1/8	32 1/4	17 1/8	1 1/8	1/2	1/2
5	17 7/16	13 7/16	17 1/2	13 7/16	19 11/16	14 15/16	25	16 5/8	12 1/16	16 5/8	21 1/2	14 5/8	9 5/8	26 1/8	27	5	10	33 1/4	30 9/16	41 7/8	39 1/16	35 3/4	20 3/8	1 1/2	5/8	1/2
6	20 1/4	15 1/8	19 1/2	15 1/8	22 5/8	16 7/8	30	19	13 1/4	19 7/8	24 1/2	16 5/8	10 5/8	32 1/8	32 1/8	6	12	38	34 7/8	49	45 7/8	42 3/4	23 3/8	1 11/16	5/8	5/8
6 1/2	22 5/8	17 7/8	21 1/2	17 7/8	25 1/2	19 1/8	32 3/4	21 7/16	15 7/16	20 1/8	27 11/16	18 5/8	11 5/8	34 1/8	33 3/4	6 1/2	13	42 7/8	38 7/8	54 3/16	49 9/16	45 3/4	26 1/2	1 7/16	5/8	5/8
7	25 1/8	19 1/8	23 1/2	19 1/8	28 1/8	21 1/8	35 3/4	23 5/8	17 1/16	22 3/8	30 1/2	20 5/8	12 5/8	37 1/8	36 3/4	7 1/2	14	47 1/4	42 5/8	59 3/4	53 15/16	49 3/4	29 1/4	1 15/16	3/4	5/8
8	30 1/8	23	27 1/2	23	33 3/4	25	41 3/4	28 3/8	20 1/8	26 5/8	36 1/2	24 5/8	14 5/8	42 1/8	42 1/8	9	16	56 1/4	50 1/2	70 1/8	62 1/2	56 3/4	35	2 3/16	3/4	3/4
9	35 1/8	26 1/4	32 1/2	26 1/4	39 1/4	28 3/4	48 1/2	33 1/8	23 5/8	30 1/8	42 1/2	28 1/4	17 5/8	48 1/8	47 7/8	10 1/2	18	66 1/4	59 1/4	81 5/8	71 1/2	65 3/4	40 3/4	2 7/16	7/8	3/4
10	40	30 1/2	36 1/2	30 1/2	45	32 1/4	55	37 3/4	27	33 1/8	48 3/4	32 1/4	19 5/8	52 5/8	52 7/8	10 1/2	20	75 1/2	67	92 3/4	79 7/8	72 1/4	46 1/2	2 11/16	1	7/8
11	45	31 5/8	40 1/2	31 5/8	50 5/8	36 1/8	61 1/2	42 1/2	30 1/4	36 5/8	54 3/4	36 1/4	21 5/8	58 1/8	57 7/8	12	22	85	74 7/8	101	88 1/8	79 3/4	52 1/2	2 15/16	1	7/8

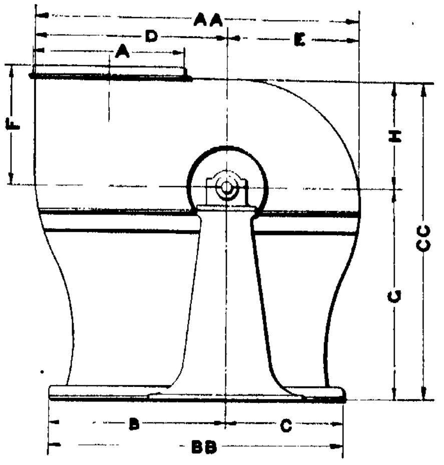


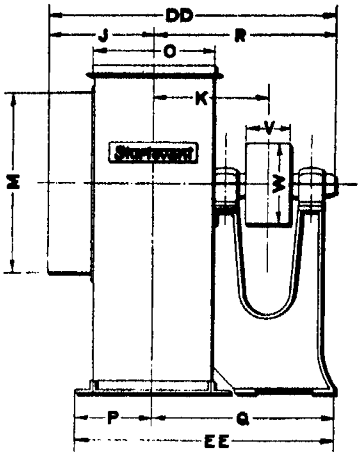
STEEL PLATE HANGER

Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts Hanger	Anchor Bolts Fan
12	49 7/8	38 1/8	46	38 1/8	56 1/4	40 1/2	69 1/4	47 1/8	33 11/16	35 1/8	60 3/4	40 3/4	25 1/8	52 1/2	52 3/4	12	24	91 1/4	84 1/8	116 1/4	86 7/16	77 7/8	58 1/4	2 15/16	1	7/8
13	54 3/4	42	51	42	61 3/4	44 1/2	75 3/8	51 7/8	37 3/16	38 7/8	66 3/4	44 1/4	27 1/8	58	58 1/2	13 1/4	28	103 3/4	93	127 1/2	95 11/16	85 1/8	64	3 7/16	1	7/8
14	59 5/8	45 3/4	55	45 3/4	67 1/8	48 1/4	82 1/8	56 5/8	40 9/16	40 7/8	72 3/4	48 3/4	29 1/8	60 1/2	60 1/2	13 1/2	32	113 1/4	100 3/4	139	101 1/16	89 5/8	69 3/4	3 7/16	1	7/8
15	64 1/2	49 5/8	60	49 5/8	73 1/8	52 1/8	88 7/8	61 3/8	43 15/16	44 7/8	78 3/4	52 3/4	32 1/8	66 1/2	67	14 1/2	36	122 3/4	109 5/8	150 1/4	110 13/16	98 5/8	75 3/4	3 15/16	1	7/8
16	69 1/8	53 1/8	64	53 3/8	75 5/8	55 7/8	95 1/4	66	47 5/16	47 7/8	85	56 3/4	34 1/8	71	72	14 1/2	42	129	117 3/8	161 1/4	119 5/16	105 1/8	81 1/2	4 1/2	1 1/4	7/8
17	74 1/8	57 1/8	68	57 1/8	84 1/8	60 5/8	101 5/8	70 5/8	50 9/16	51 3/8	91	60 7/8	36 1/8	76	77 1/4	14 1/4	48	141 1/4	125 1/8	172 1/4	128 1/16	112 3/8	87 1/2	5	1 1/4	1

Multivane Fan—Design 2

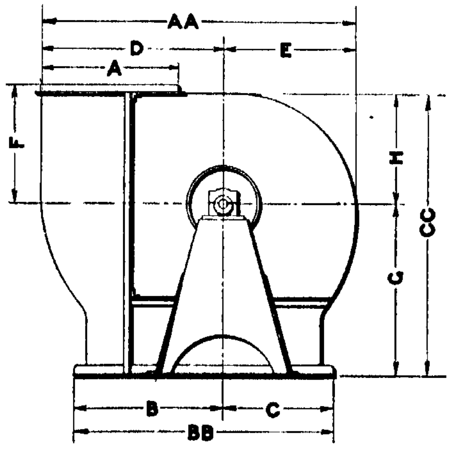
Full Housing **Up Blast Discharge** **Overhung Wheel**

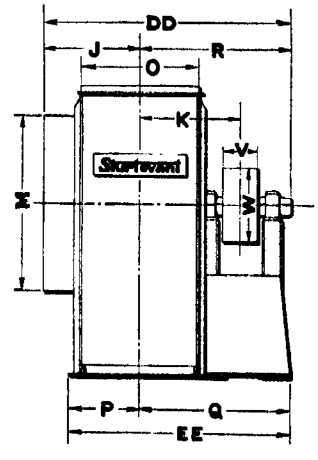




CAST IRON HANGER

Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Hanger
2	10⅜	11	8½	13 1/16	9 9/16	9	15	7¼	7	10⅞	12⅜	8⅝	5⅝	18⅛	18¾	3½	6	22¾	19½	22¼	25¼	23¾	11¾	1¼	½
3	12⅞	14	11	16⅜	11⅞	10⅞	18½	9⅝	8¾	13⅛	15½	10⅝	7⅛	21⅝	22¼	4	7	28¼	25	28⅛	31	28¾	14⅝	1¼	½
4	15⅜	17	13	19⅞	14⅜	12⅞	22	11⅛	10⅜	14⅝	18½	12⅝	8⅛	24⅛	24¼	5	8	31½	30	33⅜	35⅛	32¼	17½	1⅜	½
5	17 3/16	19½	14½	23	16⅝	14 15/16	25	13 7/16	12 1/16	16⅜	21½	14⅝	9⅝	26⅛	27	5	10	39⅝	34	38 7/16	39 1/16	35¾	20⅜	1½	⅝
6	20¼	21½	16½	26¼	19	16⅞	30	15⅜	13¼	19⅜	24½	16⅝	10⅝	32⅛	32⅛	6	12	45¼	38	45⅜	45⅞	42¼	23⅜	1 11/16	⅝
6½	22⅝	24	18	29 9/16	21 7/16	19⅜	32¾	17⅜	15 7/16	20⅝	27 1/16	18⅝	11⅜	34⅛	33¾	6½	13	51	42	50⅛	49 3/16	45¾	26½	1 11/16	⅝
7	25⅛	26½	19½	32⅝	23⅝	21⅛	35¾	19⅛	17 1/16	22⅜	30½	20⅝	12⅝	37⅛	36¾	7½	14	56¼	46	54⅞	53 13/16	49⅝	29¼	1 15/16	¾
8	30⅜	31½	23½	39⅛	28⅝	25	41¼	23	20⅜	26⅝	36½	24⅝	14⅝	42⅛	42⅛	9	16	67½	55	64¾	62½	56¼	35	2 3/16	¾
9	35⅛	37½	27½	45⅞	33⅛	28¾	48½	26¾	23⅝	30⅛	42½	28¾	17⅝	48⅛	47⅞	10½	18	79	65	75¼	71½	65¾	40¾	2 7/16	⅞
10	40	42½	31½	52¼	37¼	32½	55	30½	27	33⅛	48¾	32¾	19⅝	52⅝	52⅛	10½	20	90	74	85½	79⅜	72¼	46½	2 11/16	1
11	45	46½	34½	58¾	42½	36⅜	61½	31⅜	30¼	36⅝	54¾	36¾	21⅝	58⅛	57⅞	12	22	101¼	81	95⅞	88¼	79¼	52½	2 15/16	1





STEEL PLATE HANGER

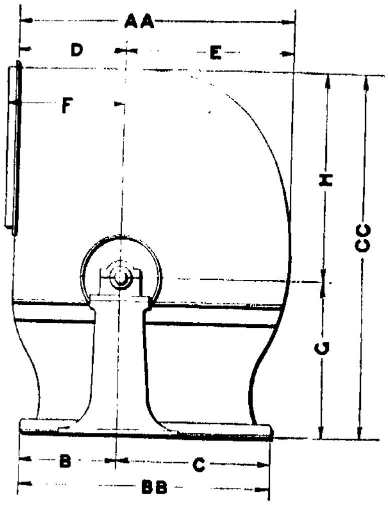
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor B Hanger
12	49⅞	53	40	65⅛	47⅛	40⅛	60⅛	38⅛	33 11/16	35⅛	60¼	40¼	25⅛	52½	52¾	12	24	112¼	93	98¼	86 7/16	77⅝	58¼	2 15/16	1
13	54¾	58	43	71⅝	51⅞	44½	65¾	42	37 3/16	38⅞	66¾	44¾	27⅛	58	58½	13½	28	123½	101	107¾	95 11/16	85⅛	64	3 7/16	1
14	59⅝	63	47	78⅛	56⅝	48¼	71½	45¾	40 9/16	40⅞	72¾	48¾	29⅛	60½	60½	13½	32	135	110	117¼	101 7/16	89⅝	69¾	3 7/16	1
15	64½	69	51	84⅞	61⅜	52⅛	77⅛	49⅝	43 13/16	44⅞	78¾	52¾	28⅛	66½	67	14½	36	146	120	126¾	110 13/16	98⅝	75¾	3 15/16	1
16	69½	73	55	91⅛	66	55⅞	82⅞	53⅜	47 5/16	47⅞	85	56¾	34⅛	71	72	14½	42	157¼	128	136	119 5/16	105⅛	81½	4½	1¼
17	74⅛	78	58	97⅝	70⅝	60⅜	88⅛	57⅛	50 9/16	51⅜	91	60¾	36⅛	76	77½	14½	48	168½	136	145½	128 1/16	112¼	87½	5	1½

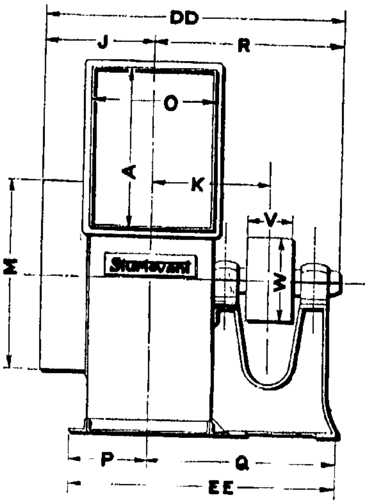
Single Inlet

Multivane Fan—Design 2

Single Width

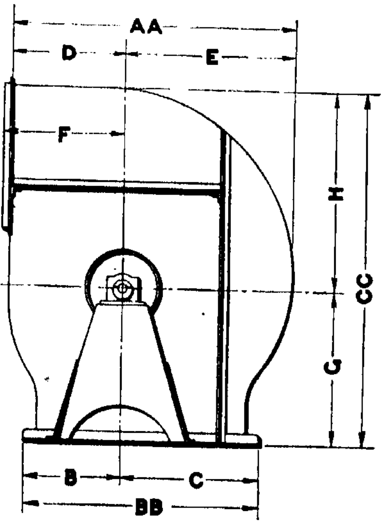
Full Housing **Top Horizontal Discharge** **Overhung Wheel**

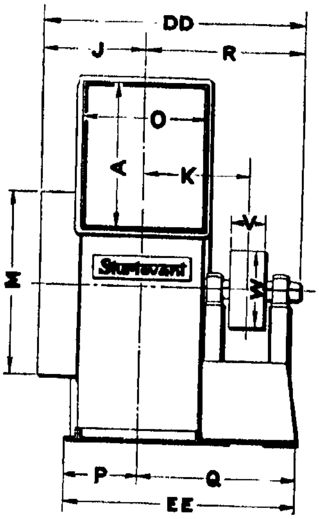




CAST IRON HANGER

Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts	
																									Hanger	Fan
2	10 1/8	7	10	7 1/4	11 3/8	9	11	13 3/16	7	10 7/8	12 3/8	8 5/8	5 5/8	18 1/8	18 1/4	3 1/2	6	19 1/8	17	24 5/16	25 1/4	23 3/4	11 3/4	1 1/4	1/2	1/2
3	12 7/8	9	12	9 5/8	14 1/8	10 7/8	14	16 3/8	8 3/4	13 1/8	15 1/2	10 5/8	7 1/8	21 5/8	22 1/4	4	7	23 3/4	21	30 3/8	31	28 3/4	14 5/8	1 1/4	1/2	1/2
4	15 1/8	11	15	11 3/8	17 1/8	12 7/8	16 1/2	19 7/8	10 3/8	14 5/8	18 1/2	12 5/8	8 1/8	24 1/8	24 3/4	5	8	28 3/4	26	36 1/8	35 1/8	32 1/4	17 1/2	1 3/8	1/2	1/2
5	17 15/16	12 1/2	17 1/2	13 7/16	19 13/16	14 15/16	18 1/2	23	12 1/16	16 5/8	21 1/2	14 5/8	9 5/8	26 1/8	27	5	10	33 1/4	30	41 1/2	39 1/16	35 3/4	20 3/8	1 1/2	5/8	1/2
6	20 1/4	13 1/2	19 1/2	15 1/8	22 5/8	16 7/8	20 3/4	26 1/4	13 3/4	19 3/8	24 1/2	16 5/8	10 5/8	32 1/8	32 1/8	6	12	38	33	47	45 7/8	42 3/4	23 3/8	1 11/16	5/8	5/8
6 1/2	22 5/8	15	21 1/2	17 3/8	25 1/2	19 3/8	23 1/2	29 9/16	15 7/16	20 7/8	27 11/16	18 5/8	11 5/8	34 1/8	33 3/4	6 1/2	13	42 7/8	36 1/2	53 1/16	49 3/16	45 3/4	26 1/2	1 11/16	5/8	5/8
7	25 3/8	16 1/2	23 1/2	19 1/8	28 1/8	21 3/8	25 1/2	32 5/8	17 1/16	22 1/8	30 1/2	20 5/8	12 5/8	37 1/8	36 3/4	7 1/2	14	47 1/4	40	58 1/8	53 13/16	49 3/4	29 1/4	1 15/16	3/4	5/8
8	30 1/8	19 1/2	27 1/2	23	33 1/4	25	30 3/4	39 1/8	20 3/8	26 5/8	36 1/2	24 5/8	14 5/8	42 1/8	42 1/8	9	16	56 3/4	47	69 7/8	62 1/2	56 1/4	35	2 3/16	3/4	3/4
9	35 1/8	23 1/2	32 1/2	26 1/4	39 1/2	28 3/4	35 1/2	45 7/8	23 5/8	30 1/8	42 1/2	28 3/4	17 5/8	48 1/8	47 7/8	10 1/2	18	66 1/4	56	81 3/8	71 1/2	65 3/4	40 3/4	2 7/16	7/8	3/4
10	40	25 1/2	36 1/2	30 1/2	45	32 1/2	40 3/4	52 1/4	27	33 1/8	48 3/4	32 1/4	19 5/8	52 5/8	52 1/8	10 1/2	20	75 1/2	62	93	79 3/8	72 1/4	46 1/2	2 11/16	1	7/8
11	45	28 1/2	40 1/2	34 1/8	50 5/8	36 3/4	45 1/2	58 3/4	30 1/4	36 5/8	54 3/4	36 1/4	21 5/8	58 1/8	57 7/8	12	22	85	69	104 1/2	88 1/4	79	52 1/2	2 15/16	1	7/8





STEEL PLATE HANGER

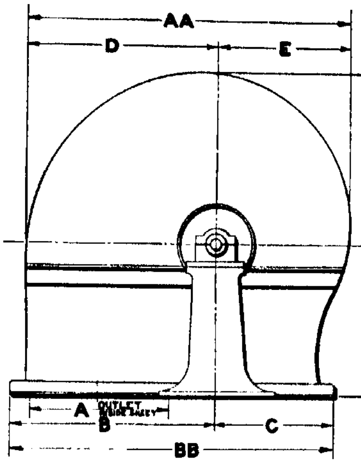
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts	
																									Hanger	Fan
12	49 1/8	33	46	38 1/8	56 1/8	40 1/8	51 1/8	65 1/4	33 11/16	35 1/8	60 3/4	40 1/4	25 1/8	52 1/2	52 1/4	12	21	91 1/4	79	116 1/4	86 7/16	77 5/8	58 1/4	2 15/16		7/8
13	54 3/4	36	51	42	61 3/4	44 1/2	55 7/8	71 5/8	37 3/16	38 7/8	66 3/4	44 3/4	27 1/8	58	58 1/2	13 1/2	28	103 3/4	87	127 1/2	95 11/16	85 1/8	64	3 7/16	1	7/8
14	59 3/4	39	55	45 3/4	67 1/2	48 1/4	60 5/8	78 3/8	40 9/16	40 7/8	72 3/4	48 3/4	29 1/8	60 1/2	60 1/2	13 1/2	32	113 1/4	94	139	101 3/16	89 5/8	69 3/4	3 7/16	1	7/8
15	64 1/2	43	60	49 3/8	73 1/8	52 1/8	65 3/8	84 7/8	43 15/16	44 7/8	78 3/4	52 3/4	32 1/8	66 1/2	67	14 1/2	36	122 3/4	103	150 1/4	110 13/16	98 5/8	75 3/4	3 15/16	1	7/8
16	69 1/2	45	64	53 3/8	78 5/8	55 7/8	70	91 1/4	47 5/16	47 7/8	85	56 3/4	34 1/8	71	72	14 1/2	42	132	109	161 1/4	119 5/16	105 1/8	81 1/2	4 1/2	1 1/4	7/8
17	74 1/2	48	68	57 1/8	84 1/8	60 5/8	74 5/8	97 5/8	50 9/16	51 3/8	91	60 7/8	36 1/8	76	77 1/2	14 1/2	48	141 1/4	116	172 1/4	128 1/16	112 1/8	87 1/2	5	1 1/4	1

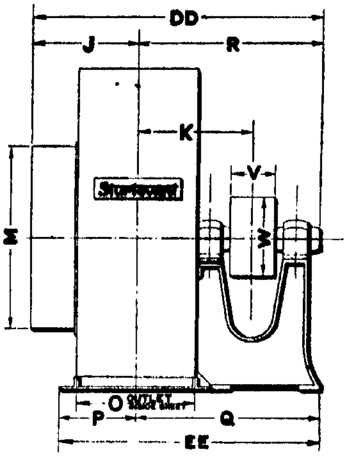
Single Inlet

Multivane Fan—Design 2

Single Width

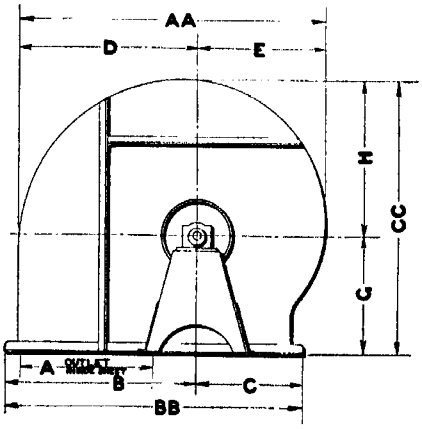
Full Housing **Down Blast Discharge** **Overhung Wheel**

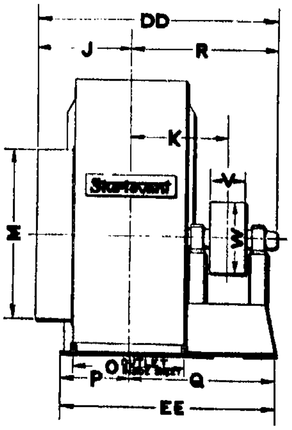




CAST IRON HANGER

Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts Hanger	Anchor Bolts Fan
2	9¾	11 11/16	8½	13 3/16	9 9/16	11	11⅝	7	10⅞	12⅛	8	5⅝	18⅛	18¾	3½	6	22¾	23 3/16	22⅞	25¾	23¾	11¾	1¼	½	⅜
3	12¼	18⅛	11	16⅜	11⅞	14	14⅛	8¾	13⅛	15½	10	7⅞	21⅝	22¼	4	7	28¼	29⅜	28⅛	31	28¾	14⅝	1¼	½	½
4	14¼	21⅞	13	19⅞	14⅜	16½	17⅛	10⅜	14⅞	18½	12	8½	21⅛	21¾	5	8	34½	34⅞	33⅝	35⅛	32¼	17½	1⅜	½	½
5	17 3/16	25½	14½	23	16⅝	18½	19 13/16	12 1/16	16⅝	21½	14	9⅝	26⅛	27	5	10	39⅝	40	38 5/16	39 1/16	35¼	20⅜	1½	⅝	½
6	19⅞	28¼	16½	26¼	19	20¼	22⅝	13¾	19⅜	24½	16	10⅝	32⅛	32⅛	6	12	45¼	45¼	43⅜	45⅞	42¾	23⅜	1 11/16	⅝	⅝
6½	22	32 1/16	18	29 9/16	21 7/16	23½	25½	15 7/16	20⅜	27 11/16	18	11⅝	34⅛	33¾	6½	13	51	50 1/16	49	49 9/16	45¾	26½	1 15/16	⅝	⅝
7	24½	35⅝	19½	32⅝	23⅝	25½	28⅛	17 1/16	22⅜	30½	20	12⅝	37⅛	36¾	7½	14	56¼	54⅝	53⅝	53 13/16	49¾	29¼	1 15/16	¾	⅝
8	29½	44⅝	23½	39⅛	28⅛	30¼	33¾	20⅜	26⅝	36½	24	14⅝	42⅛	42⅛	9	16	67½	65⅛	64½	62½	56¾	35	2 3/16	¾	¾
9	34⅝	49⅞	27½	45⅞	33⅛	35½	39½	23⅝	30⅛	42½	28	17⅝	48⅛	47⅞	10½	18	79	76⅞	75	71½	65¾	40¾	2 7/16	⅞	¾
10	39¼	55¼	31½	52¼	37¼	40¾	45	27	33⅛	48¾	32	19⅝	52⅝	52¼	10½	20	90	87¼	85¼	79⅜	72¼	46½	2 11/16	1	⅞
11	44¼	62¾	34¼	58¼	42½	45½	50⅝	30¼	36⅝	51¾	36	21⅝	58⅛	57⅞	12	22	101¼	96¾	96⅛	88⅛	79¼	52½	2 15/16	1	⅞





STEEL PLATE HANGER

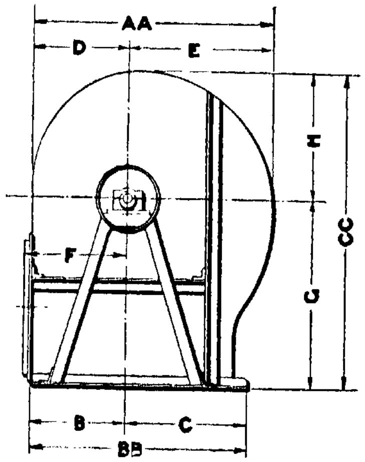
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts Hanger	Anchor Bolts Fan
12	49⅛	70⅝	40	65⅛	47⅛	42⅛	56⅛	33 11/16	35⅛	60¾	40	25⅛	52½	52¾	12	24	112¼	110⅛	98¼	86 7/16	77⅝	58¼	2 15/16	1	⅞
13	54	76⅜	43	71⅝	51⅞	46	61¾	37 3/16	38⅞	66¾	44	27⅛	58	58½	13½	28	123½	119⅝	107¾	95 11/16	85⅛	64	3 7/16	1	⅞
14	58⅞	83⅜	47	78⅝	56⅝	49¾	67½	40 9/16	40⅞	72¾	48	29⅛	60½	60½	13½	32	135	130⅜	117¼	101 7/16	89⅝	69¾	3 7/16	1	⅞
15	63¾	90⅞	51	84⅞	61⅜	53⅝	73⅛	43 11/16	44⅞	78¾	52	32⅛	66½	67	14½	36	146¼	141⅞	126¾	110 13/16	98⅝	75¼	3 15/16	1	⅞
16	68¾	97⅛	55	91⅛	66	57⅜	78⅝	47 5/16	47⅞	85	56	34⅛	71	72	14½	42	157¼	152¼	136	119 5/16	105⅛	81½	4½	1¼	⅞
17	73⅝	103⅝	58	97⅝	70⅛	61⅛	84⅛	50 9/16	51⅜	91	60	36⅛	76	77⅛	14½	48	168¼	161⅛	145¼	128 5/16	112⅛	87⅛	5	1¼	1

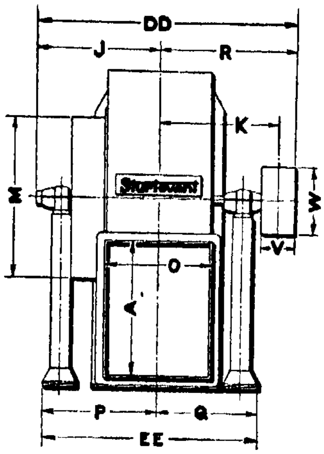
Single Inlet

Multivane Fan—Design 2

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**





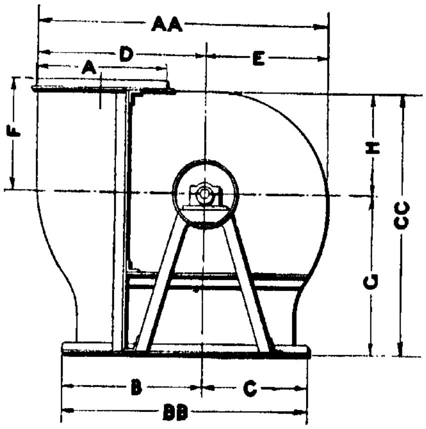
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Pedestal	Fan
8	30⅛	23	27½	23	33¼	25	41¼	28⅝	30⅛	30⅛	36½	21⅝	29¾	27¾	34⅝	9	16	56¼	50½	70⅛	65	57½	35	2 3/16	¾	¾
9	35⅛	26¾	32½	26¾	39½	28¼	48½	33⅛	34⅜	35⅛	42½	28¾	34½	32¾	40⅜	10½	18	66¼	59¼	81⅝	75	67¼	40¾	2 7/16	¾	¾
10	40	30½	36½	30½	45	32½	55	37¾	38⅜	38⅛	48¾	32¼	38⅛	35¾	43⅛	10½	20	75½	67	92¼	82	73⅞	46½	2 11/16	1	⅞
11	45	34⅜	40½	34⅜	50⅜	36⅜	61½	42½	42¾	41⅝	54⅝	36¾	41⅞	38¼	47⅝	12	22	85	74⅞	101	90⅜	80⅝	52½	2 15/16	1	⅞
12	49⅞	38⅛	46	38⅛	56⅛	40⅞	69⅛	47⅛	46½	45⅝	60¼	40¾	45⅞	43¼	51⅝	12	24	94¼	81⅛	116¼	97⅞	89⅛	58¼	2 15/16	1	⅞
13	54¼	42	51	42	61¾	44½	75⅜	51¾	51	49¼	66¼	44¼	50⅛	46¼	56⅛	13½	28	103¾	93	127½	107⅛	96⅝	64	3 7/16	1	⅞
14	59⅝	45¾	55	45¾	67½	48¼	82⅝	56⅝	54⅞	51⅞	72¼	48¾	54¼	49¼	58⅝	13½	32	113¼	100¾	139	113	103½	69¾	3 7/16	1	⅞
15	64½	49⅜	60	49⅜	73⅛	52⅜	88⅞	61⅜	59¼	56⅞	78¾	52¾	58½	53¼	64⅛	14½	36	122¾	109⅝	150¼	123⅞	111¼	75¼	3 15/16	1	⅞
16	69½	53⅝	64	53⅝	78⅞	55⅞	95¼	66	64½	60⅝	85	56¾	62½	56¼	67⅝	14½	42	132	117⅜	161¼	132⅛	118¾	81½	4½	1¼	⅞
17	74½	57¼	68	57⅞	84¼	60¾	101⅝	70⅝	69¼	64	91	60⅞	66⅞	59½	71¼	14½	48	141¼	125⅛	172¼	140½	126⅜	87½	5	1¼	1

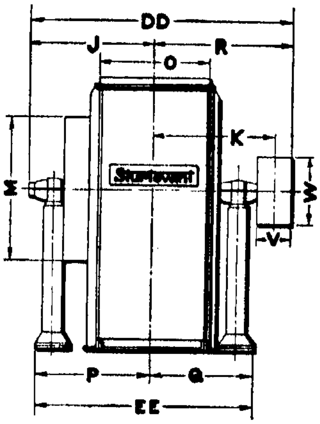
Single Inlet

Multivane Fan—Design 2

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





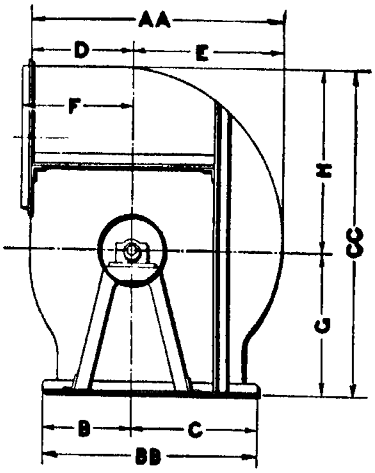
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Pedestal	Fan
8	30⅛	31½	23½	39⅛	28⅜	25	41¾	23	30⅞	30⅛	36½	24⅝	29¾	27¾	34⅝	9	16	67½	55	64¾	65	57½	35	2 3/16	¾	¾
9	35⅛	37½	27½	45⅞	33⅛	28¾	48½	26¾	34⅞	35⅛	42½	28¾	34½	32¾	40⅞	10½	18	79	65	75¼	75	67¼	40¾	2 7/16	¾	¾
10	40	42½	31½	52¼	37¾	32½	55	30½	38⅜	38⅛	48¾	32¾	38⅛	35¾	43⅜	10½	20	90	74	85½	82	73⅞	46½	2 11/16	1	⅞
11	45	46½	34½	58¾	42½	36⅜	61½	34⅜	42¼	41⅝	54¾	36¾	41⅞	38¼	47⅝	12	22	101¼	81	95⅞	90⅜	80⅝	52½	2 15/16	1	⅞
12	49⅞	53	40	65⅛	47⅛	40⅛	60⅛	38⅛	46¼	45⅝	60¾	40¾	45⅞	43¼	51⅝	12	24	112¼	93	98¼	97⅞	89⅛	58¼	2 15/16	1	⅞
13	54¼	58	43	71⅝	51⅞	44½	65¾	42	51	49⅜	66¾	44¼	50⅜	46¼	56⅛	13½	28	123½	101	107¾	107⅛	96⅝	64	3 7/16	1	⅞
14	59⅝	63	47	78⅜	56⅝	48¼	71½	45¾	54⅜	51⅞	72¼	48¾	54¼	49¼	58⅝	13½	32	135	110	117¼	113	103½	69¾	3 7/16	1	⅞
15	64½	69	51	84⅞	61⅝	52⅛	77⅛	49⅝	59¾	56⅞	78¾	52¾	58½	53¼	64⅛	14½	36	146½	120	126¾	123⅞	111¾	75¾	3 15/16	1	⅞
16	69½	73	55	91¼	66	55⅞	82⅝	53⅜	64½	60⅜	85	56¾	62½	56¼	67⅝	14½	42	157¼	128	136	132⅛	118¾	81½	4½	1½	⅞
17	74½	78	58	97⅝	70⅝	60⅝	88⅛	57⅛	69¼	64	91	60⅞	66⅞	59½	71¼	14½	48	168¼	136	145¼	140½	126⅞	87½	5	1¼	1

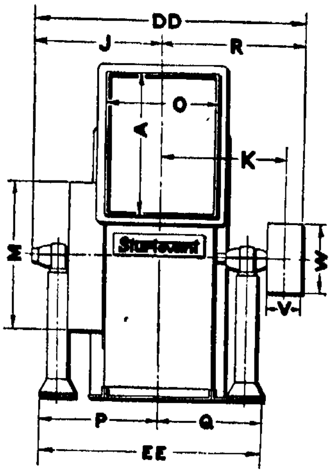
Single Inlet

Multivane Fan—Design 2

Single Width

Full Housing | **Top Horizontal Discharge** | **Overhung Pulley**





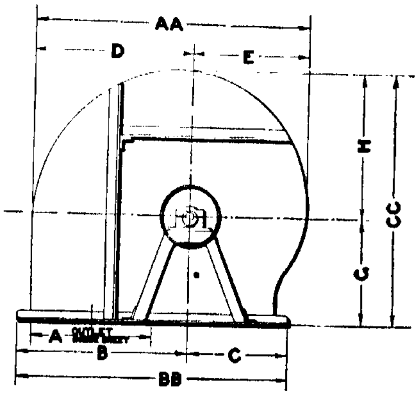
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Ped.	Anchor Bolts Fan
8	30⅛	19½	27½	23	33¾	25	30¾	39⅛	30⅜	30⅛	36½	24⅝	29¾	27¾	34⅝	9	16	56¾	47	69⅞	65	57½	35	$2\frac{3}{16}$	¾	¾
9	35⅛	23½	32½	26¾	39½	28¾	35½	45⅞	34⅝	35⅛	42½	28¾	34½	32¾	40⅜	10½	18	66¼	56	81⅜	75	67¼	40¾	$2\frac{7}{16}$	¾	¾
10	40	25½	36½	30½	45	32½	40¼	52¼	38⅜	38⅛	48¾	32¾	38⅛	35¾	43⅜	10½	20	75½	62	93	82	73⅞	46½	$2\frac{11}{16}$	1	⅞
11	45	28½	40½	34⅜	50⅝	36⅜	45½	58¾	42¼	41⅝	54¾	36⅝	41⅞	38¾	47⅝	12	22	85	69	104½	90⅜	80⅝	52½	$2\frac{15}{16}$	1	⅞
12	49⅞	33	46	38⅛	56⅛	40⅛	51⅛	65⅛	46¼	45⅝	60¾	40¾	45⅞	43¼	51⅝	12	24	94¼	79	116¼	97⅞	89⅛	58¼	$2\frac{15}{16}$	1	⅞
13	54¼	36	51	42	61¾	44⅛	55⅞	71⅝	51	49⅜	66¾	44¾	50⅞	46¼	56⅛	13½	28	103¾	87	127½	107⅛	96⅝	64	$3\frac{7}{16}$	1	⅞
14	59⅝	39	55	45¾	67½	48¼	60⅝	78⅜	54⅜	51⅞	72¾	48¾	54¼	49¼	58⅝	13½	32	113¼	94	139	113	103½	69¾	$3\frac{7}{16}$	1	⅞
15	64½	43	60	49⅝	73⅛	52⅛	65⅜	84⅞	59¾	56⅞	78¾	52¾	58½	53¼	64⅛	14½	36	122¾	103	150¼	123⅞	111¼	75¼	$3\frac{15}{16}$	1	⅞
16	69½	45	64	53⅜	78⅝	55⅞	70	91¼	64½	60⅜	85	56¾	62½	56¼	67⅝	14½	42	132	109	161¼	132⅛	118¼	81½	4½	1¼	⅞
17	74½	48	68	57⅛	84⅛	60⅛	74⅝	97⅝	69¼	64	91	60⅞	66⅞	59½	71¼	14½	48	141¼	116	172½	140½	126⅜	87½	5	1¼	⅞

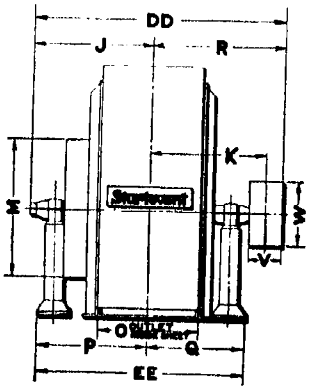
Single Inlet

Multivane Fan—Design 2

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





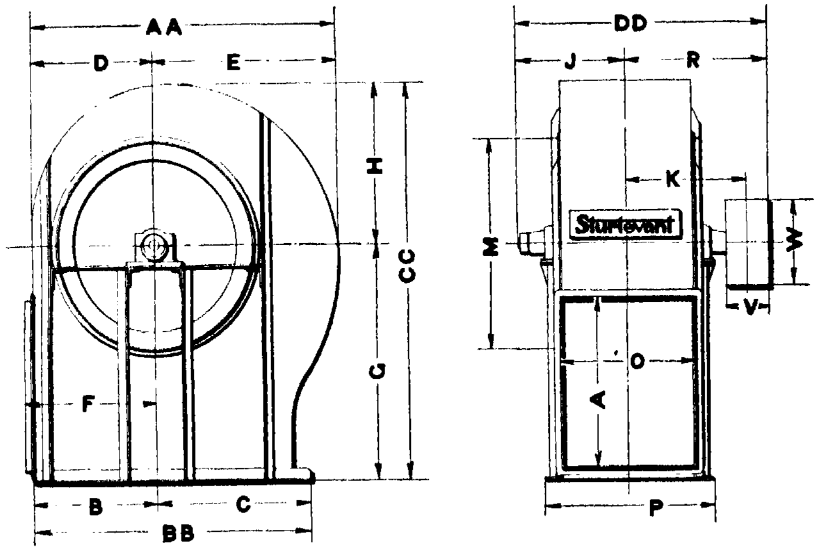
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EF	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts	
																								Pedestal	Fan
8	29½	41⅝	23½	39⅛	28⅜	30¾	33¾	30⅞	30⅛	36½	24	29¾	27¾	34⅝	9	16	67½	65⅛	64½	65	57½	35	2 3/16	¾	¾
9	34⅜	49⅜	27½	45⅞	33⅛	35½	39½	34⅞	35⅛	42½	28	34½	32⅜	40⅜	10½	18	79	76⅞	75	75	67¼	40¾	2 7/16	¾	¾
10	39¼	55⅞	31½	52¼	37⅞	40¾	45	38⅝	38⅛	48¾	32	38⅛	35¾	43⅝	10½	20	90	87¼	85¾	82	73⅞	46½	2 11/16	1	⅞
11	44¼	62¼	34½	58¾	42½	45½	50⅝	42⅞	41⅝	54¾	36	41⅞	38¾	47⅝	12	22	101¼	96¾	96⅛	90⅝	80⅝	52½	2 15/16	1	⅞
12	49⅛	70⅛	40	65⅛	47⅛	42⅜	56⅛	46¼	45⅜	60¾	40	45⅞	43¼	51⅝	12	24	112¼	110⅛	98¼	97⅞	89⅛	58¼	2 15/16	1	⅞
13	54	76⅝	43	71⅝	51⅞	46	61¾	51	49⅜	66¾	44	50⅜	46¼	56⅛	13½	28	123½	119⅝	107¾	107⅛	96⅝	64	3 7/16	1	⅞
14	58⅞	83⅜	47	78⅜	56⅝	49¾	67½	54⅞	51⅞	72¾	48	54½	49¼	58⅝	13½	32	135	130⅜	117¼	113	103½	69¾	3 7/16	1	⅞
15	63¾	90⅞	51	84⅞	61⅜	53⅝	73⅛	59¾	56⅞	78¾	52	58½	53¼	64⅛	14½	36	146½	141⅞	126¾	123⅞	111¾	75¾	3 15/16	1	⅞
16	68¾	97¼	55	91¼	66	57⅜	78⅝	64½	60⅜	85	56	62½	56¼	67⅝	14½	42	157¼	152½	136	132⅛	118¾	81½	4½	1½	⅞
17	73⅝	103⅝	58	97⅝	70⅝	61⅛	84⅛	69¼	64	91	60	66⅞	59½	71¼	14½	48	168¾	161⅝	145¼	140½	126⅝	87½	5	1½	1

Double Inlet

Multivane Fan—Design 2

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



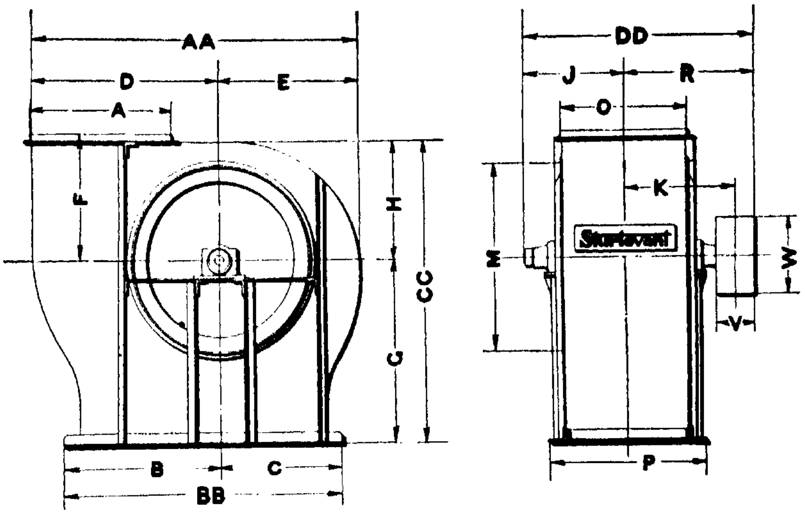
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	nchor Bolts
8	30⅛	23	27½	23	33¼	25	41¾	28⅜	21½	23¼	36⅜	24¾	29¼	27¾	9	16	56¼	50½	70⅛	49¼	35	2 3/16	¾
9	35⅛	26¾	32½	26¾	39½	28¾	48½	33⅛	21¼	26¼	42⅝	28¾	35¼	31½	10½	18	66¼	59¼	81⅝	55⅝	40¾	2 7/16	¾
10	40	30½	36½	30½	45	32½	55	37¼	27⅛	29	48½	32¾	39¼	34¼	10½	20	75½	67	92¾	61⅜	46½	2 11/16	⅞
11	45	34¼	40½	34¼	50⅜	36⅜	61½	42½	30	32	54½	36¾	43¼	38	12	22	85	74⅜	104	68	52½	2 15/16	⅞
12	49⅞	38⅛	46	38⅛	56⅛	40⅛	69⅛	47⅛	32	34	60½	40¾	50¼	40	12	24	94¼	84⅛	116¼	72	58¼	2 15/16	⅞
13	54¾	42	51	42	61¾	44½	75⅝	51⅞	35¼	37¾	66½	44¾	54¼	44¼	13½	28	103¼	93	127½	79¾	64	3 7/16	⅞
14	59⅝	45¾	55	45¾	67½	48¾	82⅜	56⅝	37¼	39¾	72½	48¾	58¼	46½	13½	32	113¼	100¾	139	83¾	69¾	3 7/16	⅞
15	64½	49⅝	60	49⅝	73¼	52⅛	88⅞	61⅜	41⅜	43¾	78½	52¾	64¼	51	14½	36	122¾	109⅝	150¼	92⅜	75¾	3 15/16	⅞
16	69½	53⅜	64	53⅜	78⅝	55⅞	95¼	66	44⅝	46¾	84¼	56⅞	68¼	54	14½	42	132	117⅜	161¼	98⅜	81½	4½	⅞
17	71½	57¼	68	57¼	84¼	60⅝	101⅝	70⅝	48¼	50¼	90¾	60⅞	72¼	57½	14½	48	141¼	125¼	172¼	105¾	87½	5	1

Double Inlet

Multivane Fan—Design 2

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	An. Bolt
8	30⅜	31½	23½	39⅛	28⅜	25	41¾	23	21½	23¼	36⅜	24⅝	29¼	27¾	9	16	67½	55	64¾	49¼	35	2 3/16	¾
9	35⅛	37½	27½	45⅞	33⅛	28¾	48½	26¾	24¼	26¼	42⅜	28¾	35¼	31½	10½	18	79	65	75¼	55⅜	40¾	2 7/16	¾
10	40	42½	31½	52¼	37¾	32½	55	30½	27⅛	29	48½	32¾	39¼	34¾	10½	20	90	74	85½	61⅜	46½	2 11/16	⅞
11	45	46½	34½	58¾	42½	36⅜	61½	34¾	30	32	54½	36¾	43¼	38	12	22	101¼	81	95⅞	68	52½	2 13/16	⅞
12	49⅞	53	40	65⅛	47⅛	40⅛	60⅛	38⅛	32	34	60½	40¼	50¼	40	12	24	112¾	93	98¼	72	58¼	2 15/16	⅞
13	54¼	58	43	71⅝	51⅞	44½	65¾	42	35¼	37¾	66½	44¾	54¼	41½	13½	28	123½	101	107¾	79¾	64	3 7/16	⅞
14	59⅝	63	47	78⅜	56⅝	48¼	71½	45¾	37¼	39¾	72½	48¾	58¼	46½	13½	32	135	110	117¼	83¾	69¾	3 7/16	⅞
15	64½	69	51	84⅞	61⅜	52⅛	77⅛	49⅝	41⅜	43¾	78½	52¾	64¼	51	14½	36	146½	120	126¾	92⅜	75¾	3 15/16	⅞
16	69½	73	55	91¼	66	55⅞	82⅜	53⅜	44⅝	46¾	84¾	56¾	68¼	54	14½	42	157¼	128	136	98⅜	81½	4½	⅞
17	74½	78	58	97⅝	70⅝	60⅜	88⅛	57⅛	48¼	50¼	90¾	60⅞	72¼	57½	14½	48	168¼	136	145¼	105⅞	87½	5	1

Double Inlet

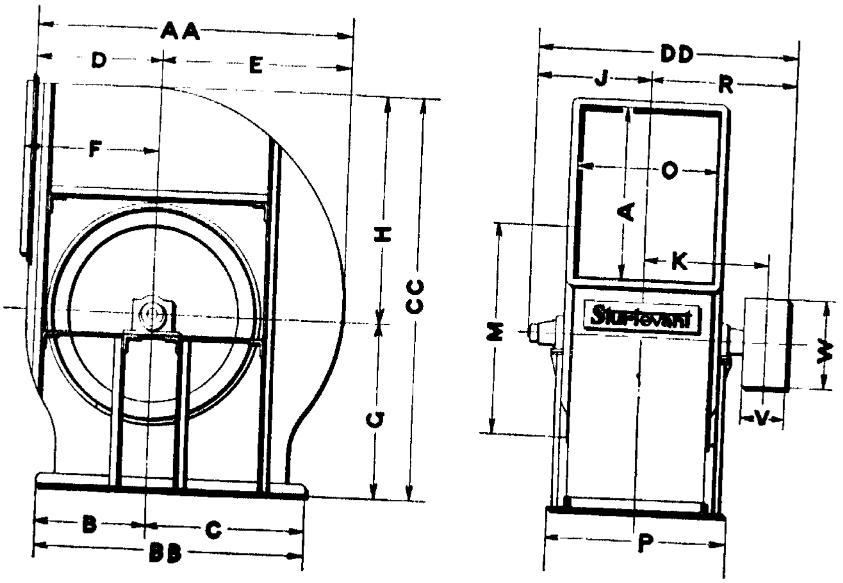
Multivane Fan—Design 2

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



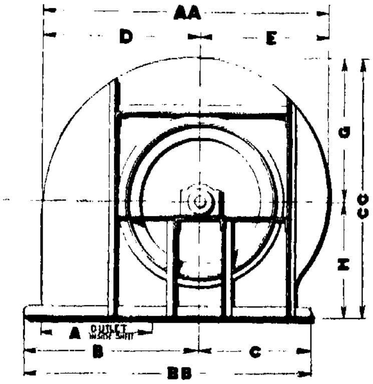
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	An. Bolts
8	30⅛	19½	27½	23	33¾	25	30¾	39⅛	21½	23¼	36⅜	24⅜	29¼	27¾	9	16	56¾	47	69⅞	49¼	35	2 3/16	¾
9	35⅛	23½	32½	26¾	39½	28¾	35½	45⅞	24¼	26¼	42⅜	28¾	35¼	31½	10½	18	66¼	56	81⅞	55⅝	40¾	2 7/16	¾
10	40	25½	36½	30½	45	32½	40¾	52¼	27⅛	29	48½	32¾	39¼	34¼	10½	20	75½	62	93	61⅜	46½	2 11/16	⅞
11	45	28½	40½	34⅜	50⅝	36⅜	45½	58¾	30	32	54½	36¼	43¼	38	12	22	85	69	104¼	68	52½	2 15/16	⅞
12	19⅞	33	46	38⅛	56¼	40⅛	51⅛	65⅛	32	34	60½	40¼	50¼	40	12	24	94¼	79	116¼	72	58¼	2 15/16	⅞
13	51¼	36	51	42	61¾	44½	55⅞	71⅝	35¼	37¾	66½	44¾	54¼	44½	13½	28	103¾	87	127½	79¾	64	3 7/16	⅞
14	59⅜	39	55	45¾	67½	48¼	60⅝	78⅛	37¼	39¾	72½	48¾	58¼	46½	13½	32	113¼	94	139	83¾	69¾	3 7/16	⅞
15	64½	43	60	49⅝	73⅛	52⅛	65⅜	84⅞	41⅜	43¾	78½	52¾	64¼	51	14½	36	122¾	103	150¼	92⅞	75¾	3 15/16	⅞
16	69½	15	64	53⅜	78⅞	55⅞	70	91¼	44⅝	46¾	84¾	56¾	68¼	54	14½	42	132	109	161¼	98⅝	81½	4½	⅞
17	74½	48	68	57⅛	84⅝	60⅝	74⅝	97⅝	48¼	50¼	90¾	60⅞	72¼	57½	14½	48	141¼	116	172¼	105¾	87½	5	1

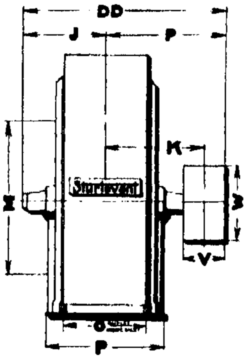
Double Inlet

Multivane Fan — Design 2

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





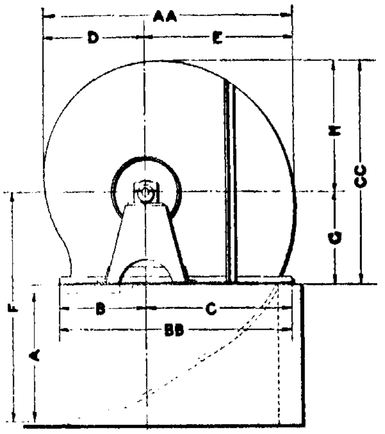
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts
8	29½	41⅜	23½	39⅛	28⅜	30¼	33¾	21½	23¼	36⅜	24	29¼	27¾	9	16	67½	65⅛	64½	49¼	35	2 3/16	¾
9	34⅜	49⅜	27½	45⅞	33⅛	35½	39½	24¼	26¼	42⅝	28	35¼	31½	10½	18	79	76⅞	75	55⅝	40¾	2 7/16	¾
10	39¼	55¾	31½	52¼	37¾	40¾	45	27⅛	29	48½	32	39¼	34¼	10½	20	90	87¼	85¾	61⅞	46½	2 11/16	⅞
11	44¼	62¼	34½	58¾	42½	45½	50⅝	30	32	54½	36	43¼	38	12	22	101¼	96¾	96⅛	68	52½	2 15/16	⅞
12	49⅛	70⅛	40	65⅛	47⅛	42⅛	56⅛	32	34	60½	40	50¼	40	12	24	112¼	110⅛	98¼	72	58¼	2 15/16	⅞
13	54	76⅝	43	71⅝	51⅞	46	61¾	35¼	37¾	66½	44	54¼	44½	13½	28	123½	119⅝	107¾	79¾	64	3 11/16	⅞
14	58⅞	83⅝	47	78⅜	56⅝	49¾	67½	37¼	39¼	72½	48	58¼	46½	13½	32	135	130⅜	117¼	83¾	69¾	3 7/16	⅞
15	63¾	90⅞	51	84⅞	61⅜	53⅝	73⅛	41⅜	43¾	78½	52	64¼	51	14½	36	146¼	141⅞	126¾	92⅜	75¾	3 15/16	⅞
16	68¼	97¼	55	91¼	66	57⅜	78⅝	44⅝	46¾	84¾	56	68¼	54	14½	42	157¼	152¼	136	98⅞	81½	4½	⅞
17	73⅝	103⅝	58	97⅝	70⅝	61⅛	84⅜	48¼	50¼	90¾	60	72¼	57½	14½	48	168¼	161⅞	145¼	105¾	87½	5	1

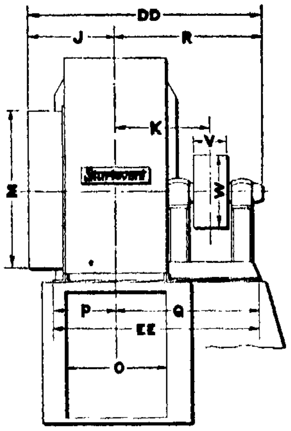
Single Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Bottom Horizontal Discharge** **Overhung Wheel**





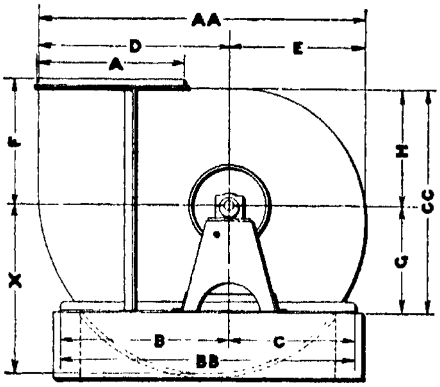
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Ped.	Anchor Bolts Fan
10	39½	27½	45¾	32⅞	47⅜	72⅝	29⅛	40⅛	27	30⅛	48¼	32	19⅝	45½	46¼	10½	20	80¼	73¼	69¼	73¼	65⅛	46½	2 11/16	1	⅞
11	44½	30½	51	37⅛	53⅜	80⅜	32⅛	45	30¼	33⅛	54¾	36	21⅝	50	50¼	12	22	90½	81½	77¾	81	71⅜	52½	2 15/16	1	⅞
12	49⅜	35	57½	41⅛	59⅛	90	36⅝	50⅛	33 11/16	35⅛	60¼	40	25⅛	52½	52¾	12	24	100¼	92½	86¼	86 7/16	77⅝	58¼	2 15/16	1	⅞
13	51¼	38	62¾	45¼	65	98⅛	39⅞	55⅛	37 3/16	38⅞	66¾	44	27⅛	58	58½	13½	28	110¼	100¼	95	95 11/16	85⅜	64	3 7/16	1	⅞
14	59⅛	42	68½	49⅜	71⅛	106	42⅞	60¼	40 9/16	40⅞	72¾	48	29⅛	60½	60½	13½	32	120½	110½	103⅛	101 1/16	89⅝	69¾	3 7/16	1	⅞
15	64	45½	76	53⅜	77⅜	113⅝	45⅝	65⅜	43 13/16	44⅞	78¼	52	32⅛	66½	67	14½	36	130¾	120½	111	110 13/16	98⅜	75¾	3 15/16	1	⅞
16	69	47	80¼	57⅝	82⅞	121⅞	48⅞	70¼	47 5/16	47⅜	85	56	34⅛	71	72	14½	42	140½	127¼	119⅛	119 5/16	105⅛	81½	4½	1¼	⅞
17	73⅞	51½	85¼	61⅞	88⅜	130	52⅛	75⅛	50 9/16	51⅜	91	60	36⅛	76	77½	14½	48	150¼	136	127¼	128 1/16	112⅛	87½	5	1¼	1

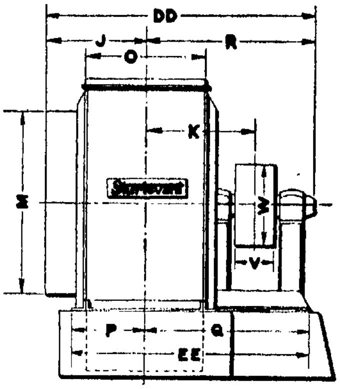
Single Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Up Blast Discharge** **Overhung Wheel**





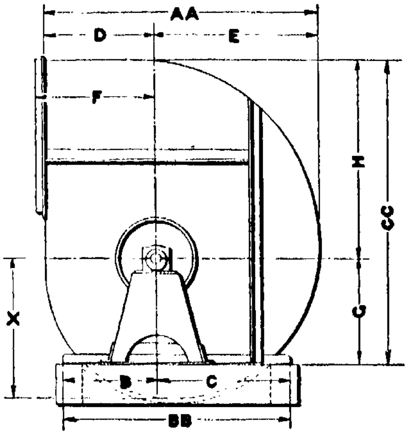
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	Anchor Bolt	
																										Hanger	Fa
10	40	45¼	34¾	52¼	37¾	32½	29⅛	30½	27	30⅛	48¾	32¾	19⅝	45½	46½	10½	20	15	90	80½	59⅝	73¼	65⅛	46½	2 11/16	1	⅞
11	45	51	38¾	58¾	42½	36⅜	32⅛	34⅜	30¼	33⅛	54¾	36¾	21⅜	50	50¾	12	22	50⅝	101¼	89¾	66½	81	71⅝	52½	2 15/16	1	⅞
12	49⅞	57½	43¾	65⅛	47⅛	40⅛	36⅝	38⅛	33 11/16	35⅛	60¾	40¾	25⅛	52½	52¾	12	24	56⅛	112¼	101¼	74¾	86 7/16	77⅝	58½	2 15/16	1	⅞
13	54¾	62¾	47¼	71⅜	51⅞	44½	39⅞	42	37 3/16	38⅞	66¾	44¾	27⅛	58	58½	13½	28	61¾	123½	110½	81⅞	95 11/16	85⅛	64	3 7/16	1	⅞
14	59¾	68½	51¾	78⅜	56⅜	48¼	42⅞	45¾	40 9/16	40⅞	72¾	48¾	29⅛	60½	60½	13½	32	67½	135	120¼	88⅝	101 1/16	89⅝	69¾	3 7/16	1	⅞
15	64½	75	57¼	84⅞	61⅜	52⅛	45⅞	49⅝	13 11/16	44⅞	78¾	52¾	32⅛	66½	67	14½	36	73⅛	146¼	132¼	95¼	110 13/16	98⅝	75¾	3 15/16	1	⅞
16	69½	80¼	60¾	91¼	66	55⅞	48⅞	53⅜	47 5/16	47⅞	85	56¾	34⅛	71	72	14½	42	78⅝	157¼	141	102¼	119 5/16	105⅛	81½	4½	1¼	⅞
17	74½	85½	64¾	97⅜	70⅝	60⅝	52⅛	57⅛	50 9/16	51⅜	91	60⅞	36⅛	76.	77½	14½	48	84⅛	168¼	150¼	109¼	128 1/16	112⅛	87½	5	1¼	1

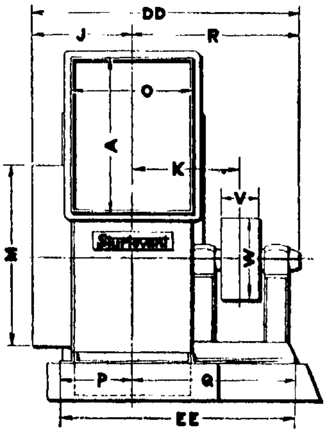
Single Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Top Horizontal Discharge** **Overhung Wheel**





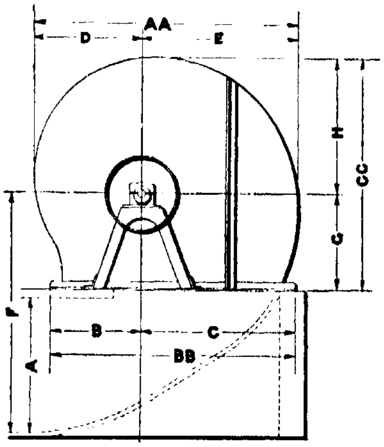
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																										Hanger	Fan
10	40	25¼	36	30½	45	32½	29⅛	52¼	27	30⅛	48¾	32¼	19⅝	45½	46¼	10½	20	37¾	75½	61¾	81⅜	73¼	65⅛	46½	2 11/16	1	⅞
11	45	28¼	40¼	34⅜	50⅜	36⅜	32⅛	58¼	30¼	33⅛	54¼	36¾	21⅝	50	50¾	12	22	42½	85	69	90⅞	81	71⅝	52½	2 15/16	1	⅞
12	49⅞	32½	45½	38⅜	56⅛	40⅛	36⅝	65⅛	33 11/16	35¼	60¾	40¼	25⅛	52½	52¾	12	24	47¼	94¼	78	101¼	86 7/16	77⅞	58¼	2 15/16	1	⅞
13	54¼	35½	49½	42	61¼	44⅛	39⅞	71⅝	37 3/16	38⅞	66¼	44¼	27⅛	58	58½	13½	28	51⅞	103¼	85	111½	95 11/16	85⅛	64	3 7/16	1	⅞
14	59⅜	38¼	53¾	45¾	67½	48¼	42⅞	78⅜	40 9/16	40⅞	72¾	48¾	29⅛	60½	60½	13½	32	56⅝	113¼	92	121¼	101 1/16	89⅝	69¾	3 7/16	1	⅞
15	64½	42½	59½	49⅞	73⅛	52⅛	45⅝	84⅛	43 13/16	41⅞	78¾	52¾	32⅛	66½	67	11½	36	61⅜	122¾	102	130½	110 13/16	98⅝	75¾	3 15/16	1	⅞
16	69½	45	63¼	53⅜	78⅜	55⅞	48⅞	91¼	47 5/16	47⅞	85	56¼	34⅛	71	72	14½	42	66	132	108¼	140⅛	119 5/16	105⅛	81½	4½	1¼	⅞
17	74½	48	67½	57⅛	84⅛	60⅜	52⅛	97⅜	50 9/16	51¾	91	60⅞	36½	76	77½	14½	48	70⅝	141¼	115½	149¾	128 1/16	112⅛	87½	5	1¼	1

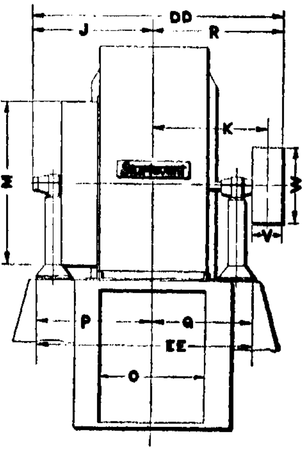
Single Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing | **Bottom Horizontal Discharge** | **Overhung Pulley**





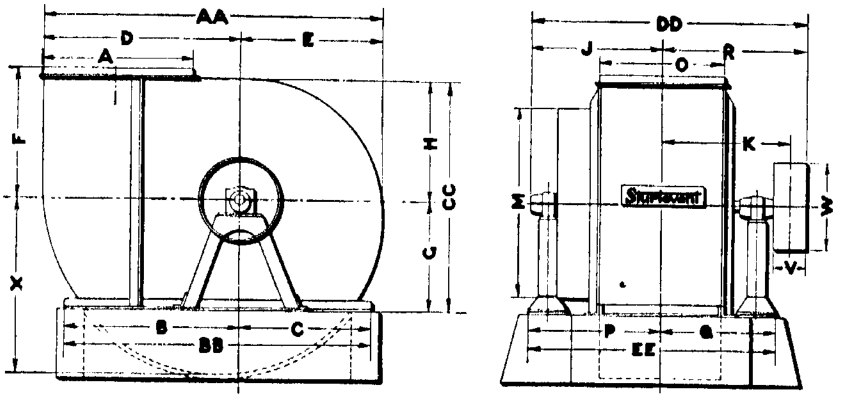
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Pedestal	Fan
10	39½	27½	45¼	32⅞	47⅞	72⅝	29⅛	40⅛	38⅜	35⅞	48¾	32	35⅜	30¼	40⅝	10½	20	80¼	73½	69¼	79¼	65⅝	46½	2 11/16	1	⅞
11	44½	30½	51	37⅛	53⅜	80⅜	32⅛	45¼	42¾	38⅞	54¾	36	39⅛	33¼	44⅞	12	22	90½	81½	77⅜	87⅝	72⅞	52½	2 15/16	1	⅞
12	49⅜	35	57½	41⅛	59⅛	90	36⅝	50⅛	46¼	43⅛	60¾	40	43⅜	38¼	49⅛	12	24	100¼	92½	86¾	95⅜	81⅝	58¼	2 15/16	1	⅞
13	54¼	38	62¾	45¼	65	98⅛	39⅞	55⅛	51	46⅞	66¼	44	47⅞	41¼	53⅜	13½	28	110¼	100¾	95	104⅜	89⅛	64	3 7/16	1	⅞
14	59⅛	42	68½	49⅜	71⅛	106	42⅞	60¼	54⅜	49⅝	72¾	48	51¾	44¼	56⅛	13½	32	120½	110½	103⅛	110½	96	69¾	3 7/16	1	⅞
15	64	45½	75	53⅜	77⅛	113⅝	45⅝	65⅜	59¾	54⅞	78¾	52	56½	49¼	62⅛	14½	36	130¾	120½	111	121⅞	105¾	75¾	3 15/16	1	⅞
16	69	47	80¼	57⅛	82⅞	121⅞	48⅞	70¼	64½	58⅝	85	56	60½	52¼	65⅝	14½	42	140½	127¼	119⅛	130⅛	112¾	81½	4½	1¼	⅞
17	73⅞	51½	85½	61⅝	88⅝	130	52⅛	75⅛	69⅝	62	91	60	64⅞	55⅜	69¼	14½	48	150¼	137	127¼	138⅝	120¼	87½	5	1¼	1
18	78⅝	59½	90⅞	65¾	94¾	137⅞	55¼	80¼	80¾		97⅛	64	78½	64⅞				160½	150⅜	135½		142⅞	93¼	5½	1¼	1
20	88½	66	101½	74	106½	153¾	61¼	90¼	88		109¼	72	86½	70⅜				180½	167½	151½		156⅞	105	6	1¼	1
22	98¼	73	111¾	82¼	118¼	170¼	68	100¼	94½		121⅜	80	94	76⅜				200½	184¾	168¼		170⅞	116½	6½	1¼	1
24	108	79	122¾	90⅞	130⅛	186	74	110¼	101½		133⅜	88	102	82½				220½	201¾	184¼		184½	128	7½	1½	1⅛
26	117¾	86	133½	98⅝	141⅞	201¾	80½	120¼	107½		145½	96	109	88½				240½	219½	201¾		197½	140	8	1½	1⅛

Single Inlet

Multivane Fan—Design 2

Single Width

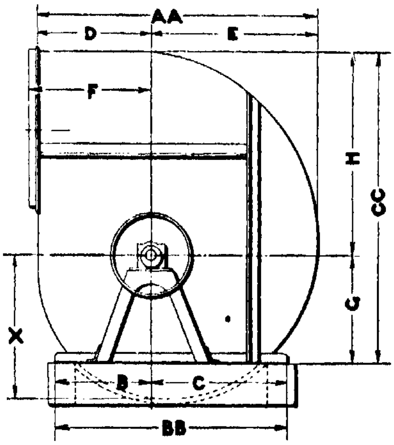
⅞ Housing **Up Blast Discharge** **Overhung Pulley**

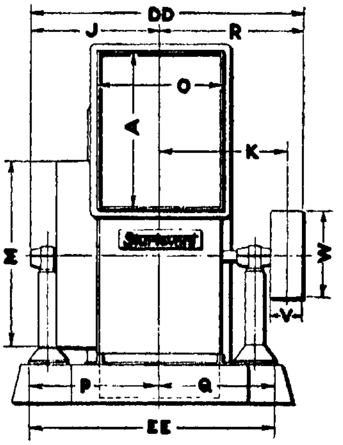


Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	An. Bolts	
																										Ped.	Fan
0	40	45¾	31¾	52¼	37¾	32½	29⅝	30½	38⅝	35⅛	48¾	32¾	35⅜	30¼	40⅞	10½	20	45	90	80½	59⅝	79¼	65⅝	46⅜	2 11/16	1	⅞
1	45	51	38¼	58¾	42½	36⅝	32⅛	34⅞	42¾	38⅞	54¾	36¾	39⅛	33¼	44⅞	12	22	50⅜	101¼	89¾	66½	87⅝	72⅜	52½	2 15/16	1	⅞
2	49⅞	57½	43¼	65⅛	47⅛	40⅛	36⅜	38⅛	46¼	43⅛	60¾	40¼	43⅜	38¼	49⅛	12	24	56⅛	112¼	101¼	74¼	95⅜	81⅝	58¼	2 15/16	1	⅞
3	54¾	62¼	47¾	71⅝	51⅞	44½	39⅞	42	51	46⅞	66¾	41¾	47⅞	41¼	53⅝	13½	28	61⅞	123½	110½	81⅞	104⅜	89⅛	64	3 7/16	1	⅞
4	59⅝	68½	51¼	78⅜	56⅝	48¼	42⅞	45¾	54⅜	49⅜	72¾	48¾	51¾	41¼	56⅛	13½	32	67½	135	120¼	88⅜	110½	96	69¾	3 7/16	1	⅞
5	64½	75	57¼	84⅞	61⅜	52⅛	45⅜	49⅝	59¾	51⅞	78¼	52¾	56½	49¼	62⅛	14½	36	73⅛	146¼	132¼	95¼	121⅞	105¾	75¾	3 15/16	1	⅞
6	69½	80¼	61¼	91¼	66	55⅞	48⅞	53⅞	64½	58⅝	85	56¾	60½	52¼	65⅝	14½	42	78⅝	157¼	141	102¼	130⅛	112¾	81½	4½	1¼	⅞
7	74½	85½	64¾	97⅜	70⅝	60⅝	52⅛	57⅛	69⅜	62	91	60⅞	64⅞	55¾	69¼	14½	48	81⅛	168¼	150¼	109¼	138⅝	120¼	87½	5	1¼	1
8	79½	90⅞	68¾	104⅜	75⅜	64⅝	55¼	60⅞	80¾		97⅛	64⅞	78½	64⅜				89⅞	179¾	159⅝	116⅛		142⅞	93¼	5½	1¼	1
0	89⅛	101½	76¾	117¼	84¼	72	61¼	68½	88		109¼	72⅛	86½	70⅞				101	202	178¼	129¾		156⅞	105	6	1¼	1
2	98⅞	111¾	84½	130¼	94¼	79¾	68	76⅛	94¼		121⅛	80⅞	94	76⅜				112¼	224½	196¼	144¼		170⅜	116½	6½	1¼	1
4	108¼	122¾	92½	143⅛	103⅜	88½	74	83¾	101½		133⅜	89	102	82½				123½	247	215¼	157¾		184½	128	7½	1¼	1⅛
6	118½	133¼	100½	156¼	113	95⅞	80	91⅞	107½		145½	97	109	88½				134⅜	269½	234	171⅜		197½	140	8	1¼	1⅛

Single Inlet # Multivane Fan—Design 2 **Single Width**

⅞ Housing **Top Horizontal Discharge** **Overhung Pulley**





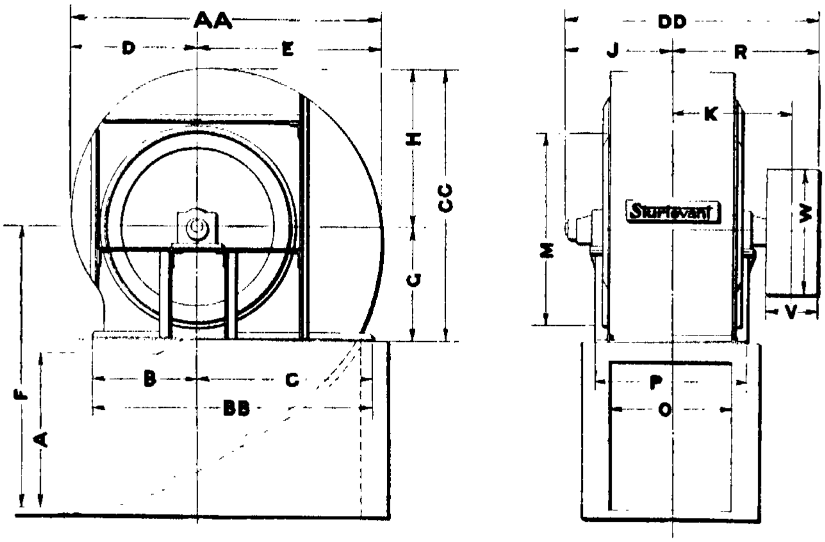
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	An. Bolts	
																										Ped.	Fa
10	40	25¾	36	30⅜	45	32½	29⅛	52¼	38⅜	35⅞	48⅞	32¾	35⅜	30¼	40⅜	10½	20	37¾	75¼	61¾	81⅜	79¼	65⅝	46½	2 11/16	1	⅞
11	45	28¾	40¼	34⅜	50⅝	36¼	32⅛	58¾	42¼	38⅞	54¾	36¾	39⅛	33½	44⅞	12	22	42½	85	69	90⅞	87⅜	72⅞	52½	2 15/16	1	⅞
12	49⅞	32½	45½	38⅛	56⅛	40⅛	36⅝	65⅛	46¼	43⅛	60¾	40¼	43⅜	38½	49⅛	12	24	47⅛	94¼	78	101¾	95⅛	81⅜	58¼	2 15/16	1	⅞
13	54¾	35½	49½	42	61¾	44½	39⅞	71⅝	51	46⅞	66¼	44¾	47⅞	41¼	53⅜	13½	28	51⅞	103¾	85	111½	104⅜	89⅛	64	3 7/16	1	⅞
14	59⅝	38¼	53¾	45¼	67½	48¼	42⅞	78⅜	54⅜	49⅜	72¾	48¾	51¾	44¼	56⅛	13½	32	56⅝	113¼	92	121¼	110½	96	69¾	3 7/16	1	⅞
15	61½	42½	59½	49⅝	73⅛	52⅛	45⅝	84⅞	59¼	54⅞	78¼	52¾	56½	49¼	62⅛	14½	36	61⅜	122¼	102	130½	121⅞	105¾	75¾	3 15/16	1	⅞
16	69½	45	63¼	53⅜	78⅝	55⅞	48⅞	91¼	64½	58⅜	85	56¾	60½	52¼	65⅝	14½	42	66	132	108¼	140⅛	130⅛	112¾	81½	4½	1¼	⅞
17	74½	48	67½	57⅛	84⅛	60⅝	52⅛	97⅜	69⅜	62	91	60⅞	64⅝	55⅜	69¼	14½	48	70⅜	141¼	115½	149¾	138⅝	120¼	87½	5	1¼	1
18	79¼	50¾	71⅜	60⅞	89⅞	64⅜	55¼	104⅜	80¼		97⅛	64⅞	78½	64⅜				75⅜	150¾	122⅜	159⅜		142⅞	93¼	5½	1¼	1
20	89⅛	56¾	80¼	68½	101	72	61¼	117¼	88		109¼	72⅞	86½	70⅜				84¾	169½	137	178½		156⅞	105	6	1¼	1
22	98⅞	62¼	88¼	76¼	112¼	79¾	68	130¼	94½		121⅜	80⅞	94	76⅜				94¼	188½	150½	198¼		170⅞	116½	6½	1¼	1
24	108¾	68	96¾	83¼	123½	88¼	74	143⅜	101½		133⅜	89	102	82½				103⅜	207½	164¾	217⅜		184½	128	7½	1¼	1⅜
26	118½	73¾	105¼	91⅜	134⅝	95⅞	80	156¼	107½		145½	97	109	88½				113	226	179	236¼		197½	140	8	1½	1⅜

Double Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Bottom Horizontal Discharge** **Overhung Pulley**



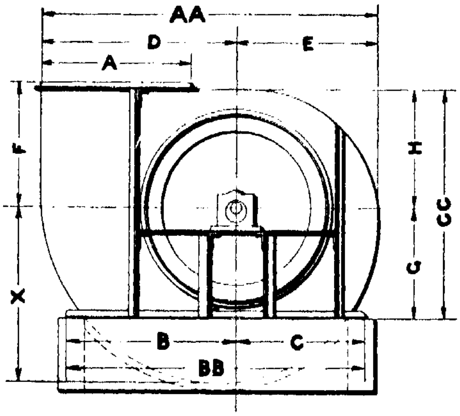
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																							Pedestal	Fan
10	39½	27½	45¾	32⅞	47⅜	72⅝	29⅛	40⅛	27⅛	29	48½	32	39¼	34¼	10½	20	80¼	73¼	69¼	61⅜	46½	2 11/16		⅞
11	41½	30½	51	37⅛	53⅜	80⅝	32¼	45½	30	32	54½	36	43¼	38	12	22	90½	81½	77¾	68	52½	2 15/16		⅞
12	49⅝	35	57½	41⅛	59⅛	90	36⅜	50⅜	32	34	60½	40	50¼	40	12	24	100¼	92½	86¾	72	58¼	2 15/16		⅞
13	51¼	38	62¾	45¼	65	98⅛	39⅛	55⅞	35¼	37¾	66½	44	54¼	44½	13½	28	110¼	100¾	95	79¾	64	3 7/16		⅞
14	59⅝	42	68½	49⅛	71⅜	106	42⅞	60¼	37¼	39¼	72½	48	58¼	46½	13½	32	120½	110½	103⅛	83¾	69¾	3 7/16		⅞
15	61	45½	75	53⅝	77⅛	113⅝	45⅝	65⅜	41⅜	43¾	78½	52	64¼	51	14½	36	130¾	117½	111	92⅜	75¾	3 15/16		⅞
16	69	47	80¼	57⅝	82⅞	121⅞	48⅞	70¼	41⅝	46¾	84¾	56	68¼	54	14½	42	140½	127¼	119⅛	98⅝	81½	4½		⅞
17	73¾	51½	85½	61⅝	88⅝	130	52⅛	75⅛	48¼	50⅛	90¾	60	72¼	57½	14½	48	150¼	136	127¼	105¾	87½	5		1
18	78⅝	59½	90⅞	65¾	94¾	137⅞	55¼	80¼	58⅞		96⅞	64	111¼				160½	150⅜	135½		93¾	5½	1¼	1
20	88½	66	101½	74	106½	153¾	61¼	90¼	63⅞		109	72	121¾				180½	167½	151½		105	6	1¼	1
22	98¼	73	111¾	82¼	118¼	170¼	68	100¼	67⅛		121⅛	80	131¾				200½	184¾	168¼		116½	6	1¼	1
24	108	79	122¾	90⅞	130⅛	186	74	110¼	71⅛		133⅛	88	141¾				220	201¾	184¼		128	6	1¼	1⅛
26	117¾	86	133½	98⅝	141⅜	201¾	80	120¼	75⅛		145¼	96	151¾				240	219½	200¼		140	6	1¼	1⅛

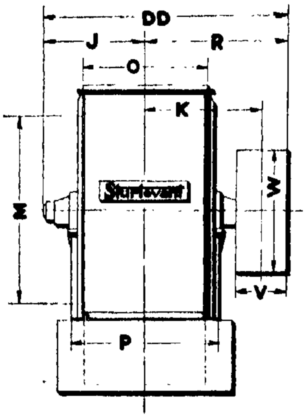
Double Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Up Blast Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																								Ped.	Fan
10	40	45¾	34¾	52¼	37¼	32½	29⅛	30½	27⅛	29	48½	32¾	39¼	34¼	10½	20	45	90	80½	59⅜	61⅜	46½	2 11/16		⅞
11	45	51	38¾	58¾	42½	36⅞	32⅛	34⅜	30	32	54½	36¾	43½	38	12	22	50⅝	101¼	89¾	66½	68	52½	2 15/16		⅞
12	49⅞	57½	43¾	65⅛	47⅛	40⅛	36⅝	38⅛	32	34	60½	40¼	50¼	40	12	24	56⅛	112¼	101¼	74¾	72	58¼	2 15/16		⅞
13	54¾	62¾	47¾	71⅝	51⅞	44½	39⅞	42	35¼	37¾	66½	44¾	54¼	44½	13½	28	61¾	123½	110½	81⅞	79¾	64	3 7/16		⅞
14	59⅝	68½	51¾	78⅜	56⅝	48¼	42⅞	45¾	37¼	39¾	72½	48¾	58¼	46½	13½	32	67½	135	120¼	88⅝	83¼	69¾	3 7/16		⅞
15	64½	75	57¼	84⅞	61⅜	52⅛	45⅝	49⅜	41⅜	43¾	78½	52¾	64¼	51	14½	36	73⅛	146¼	132¼	95¼	92⅜	75¼	3 15/16		⅞
16	69½	80¼	60¾	91¼	66	55⅞	48⅞	53⅜	44⅝	46¾	84¾	56¾	68¼	54	14½	42	78⅝	157¼	141	102¼	98⅝	81½	4½		⅞
17	74½	85½	64¾	97⅝	70⅝	60⅝	52⅛	57⅛	48⅛	50¼	90¾	60⅞	72¼	57½	14½	48	84⅛	168¼	150¼	109¼	105⅝	87½	5		1
*18	79¼	90⅞	68¾	104⅜	75⅜	64⅜	55¼	60⅞	59⅛		96⅜	64⅞	111¾				89⅞	179¾	159⅝	116⅛		93½	5½	1¼	1
*20	89⅛	101½	76¾	117¼	84¾	72	61¼	68½	63⅜		109	72⅞	121¾				101	202	178¼	129⅞		105	6	1¼	1
*22	98⅞	111¾	84½	130¼	94¼	79¾	68	76¼	67⅜		121⅛	80⅞	131¾				112¼	224½	196¼	144¼		116½	6	1¼	1
*24	108⅜	122¾	92½	143⅜	103⅝	88¼	74	83¾	71⅜		133⅜	89	141¾				123½	247	215¼	157¼		128	6	1¼	1⅛
*26	118½	133½	100⅛	156¼	113	95⅞	80	91⅜	75⅜		145¼	97	151¾				134⅜	269¼	234	171⅜		140	6	1¼	1⅛

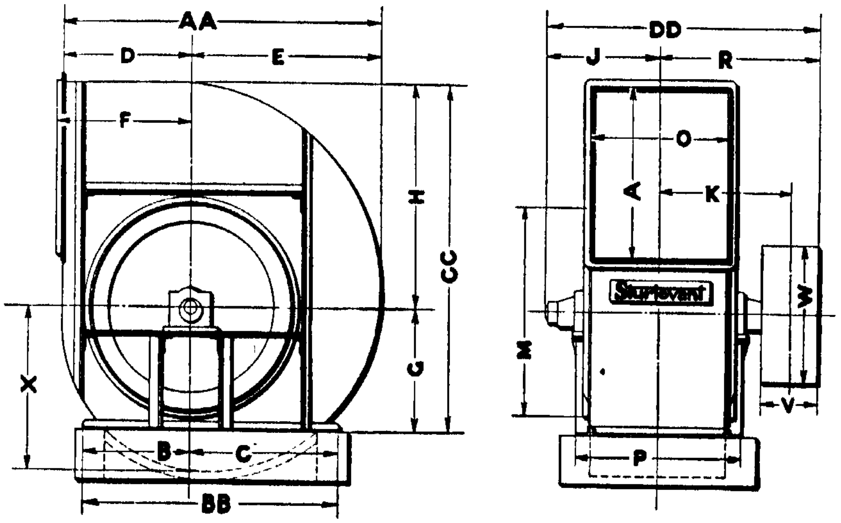
*Sizes 18-26 have bearing pedestals against fan housing

Double Inlet

Multivane Fan—Design 2

Single Width

⅞ Housing **Top Horizontal Discharge** **Overhung Pulley**



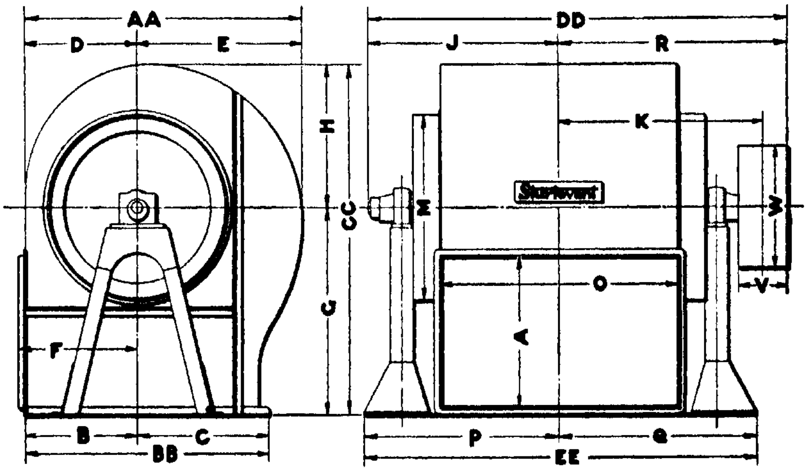
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Pedestal	Fan
10	40	25¾	36	30½	45	32½	29⅛	52¼	27⅛	29	48½	32¾	39¼	34¼	10½	20	37¾	75½	61¾	81⅜	61⅜	46½	2 11/16		⅞
11	45	28¾	40¼	34⅜	50⅝	36⅞	32⅛	58¾	30	32	54½	36¾	43¼	38	12	22	42½	85	69	90⅞	68	52½	2 15/16		⅞
12	49⅞	32½	45½	38⅛	56⅛	40⅜	36⅝	65⅛	32	34	60½	40¾	50½	40	12	24	47⅛	94¼	78	101¾	72	58¼	2 15/16		⅞
13	54⅞	35½	49½	42	61¾	44½	39⅞	71⅝	35¼	37¾	66½	44¾	54¼	44½	13½	28	51⅞	103¾	85	111½	79¾	64	3 7/16		⅞
14	59⅝	38¼	53¾	45¾	67½	48¼	42⅞	78⅜	37¼	39¾	72½	48¾	58¼	46½	13½	32	56⅜	113¼	92	121¼	83¾	69¾	3 7/16		⅞
15	64½	42½	59½	49⅝	73⅛	52⅛	45⅝	84⅞	41⅜	43¾	78½	52¾	64¼	51	14½	36	61⅜	122¾	102	130½	92⅜	75¾	3 15/16		⅞
16	69½	45	63¼	53⅞	78⅛	55⅞	48⅜	91¾	44⅜	46¾	84¾	56¾	68¼	54	14½	42	66	132	108¼	140⅛	98⅜	81½	4½		⅞
17	74½	48	67½	57⅛	84⅛	60⅝	52⅛	97⅝	48¼	50¼	90¾	60⅞	72¼	57½	14½	48	70⅝	141¼	115½	149¾	105¾	87½	5		1
18	79¼	50¾	71⅞	60⅞	89⅞	64⅞	55⅜	104¼	58⅞		96⅞	64⅞	111¾				75⅝	150¾	122⅝	159⅝		93¼	5½	1¼	1
20	89⅛	56¾	80¼	68½	101	72	61¼	117¼	63⅛		109	72⅞	121¾				84¾	169½	137	178½		105	6	1¼	1
22	98⅞	62¼	88¼	76¼	112¼	79¾	68	130¼	67⅛		121⅛	80⅞	131¾				94¼	188½	150½	198¼		116½	6	1¼	1
24	108¾	68	96¾	83⅞	123⅜	88¼	74	143⅜	71⅛		133⅛	89	141¾				103⅝	207¼	164¾	217⅜		128	6	1¼	1⅛
26	118½	73¼	105¾	91⅞	134⅛	95⅞	80	156¼	75⅛		145¼	97	151¾				113	226	179	236¼		140	6	1¼	1⅛

Double Inlet

Multivane Fan—Design 2

Double Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



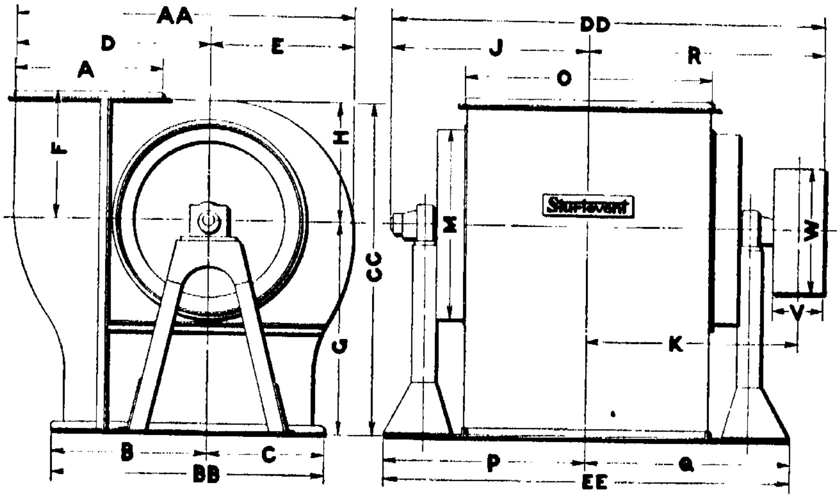
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Sz. Wh'l Dia.	Shaft Dia.	An. Bolts Ped.	An. Bolts Fo
2	10⅝	7¾	10	7¾	11⅞	9	15	9 3/16	17	17⅛	12⅝	16⅝	15¾	15½	18⅞	3½	7	19⅛	17¾	24 9/16	35⅞	31⅛	11¾	1¼	½	½
3	12⅞	9⅝	12	9⅝	14⅛	10⅞	18½	11⅞	19⅞	20¼	15¼	20⅜	19	19	22¼	4	8½	23⅜	21⅝	30⅝	42⅛	38	14⅝	1⅜	½	½
4	15⅜	11⅝	15	11⅝	17⅛	12⅞	22	14⅝	22½	23⅛	18½	24⅝	22¼	22½	26	5	11	28⅜	26⅝	36⅝	48⅛	44⅛	17½	1½	½	½
5	17 11/16	13 7/16	17½	13 7/16	19 13/16	14 13/16	25	16⅝	26	27⅛	21½	28⅝	25¼	25½	30⅝	6½	12	33½	30 11/16	41⅝	56⅝	51	20⅝	1 11/16	½	½
6	20¼	15⅝	19½	15⅝	22⅝	16⅞	30	19	29⅛	30¼	24⅛	32⅜	29¼	29¼	33½	6⅝	14	38	34⅞	49	63	58⅛	23⅝	1 15/16	⅝	⅝
6½	22⅝	17⅜	21½	17⅜	25⅛	19⅝	32¾	21 1/16	32¾	33½	27 11/16	36⅝	33⅛	33⅛	37	7	16	42⅞	38⅞	54 9/16	69¾	66¼	26⅛	2 3/16	⅝	⅝
7	25⅛	19⅛	23½	19⅛	28⅛	21⅛	35¾	23⅝	35⅜	36½	30½	40⅝	35¾	35¾	40½	8	18	47½	42⅝	59⅝	75⅞	71⅛	29¼	2 3/16	⅝	⅝
8	30⅛	23	27½	23	33¾	25	41¾	28⅝	41¼	43	36½	48⅝	40¾	40¾	48	10	22	56⅜	50⅛	70⅛	89¼	81⅛	35	2 7/16	¾	¾
9	35⅛	26¾	32½	26¾	39⅛	28¾	48½	33⅛	46⅝	49¼	42½	56¾	46¾	46¾	55⅛	12⅜	24	66¼	59¼	81⅝	102⅛	93⅛	40¾	2 11/16	¾	¾
10	40	30½	36½	30½	45	32½	55	37¾	52⅝	55⅛	48¾	64¾	51¾	51¾	61⅞	13⅜	28	75½	67	92¾	117	103⅛	46⅛	2 15/16	1	⅞
11	45	34⅜	40½	34⅜	50⅝	36⅜	61½	42½	58⅝	61¼	54¾	72¾	56¼	56¾	68¼	14	32	85	74⅞	104	126⅝	113⅛	52⅛	3 7/16	1	⅞
12	49⅞	38⅛	46	38⅛	56⅛	40⅛	69⅛	47⅛	65⅜	68⅝	60¼	80¼	63¼	63½	76¼	15⅛	36	94¼	84⅛	116¼	141⅛	126⅛	58¼	3 11/16	1	⅞
13	54¾	42	51	42	61¾	44½	75⅝	51⅞	70⅝	73⅜	66¾	88¾	68¼	68½	81⅜	15⅜	40	103¾	93	127⅛	152	136⅛	64	3 15/16	1	⅞
14	59⅜	45¾	55	45¾	67⅛	48½	82⅝	56⅝	76¾	79¾	72¾	96⅝	73¼	73½	87¼	16	42	113¼	100⅝	139	164½	146⅛	69¾	4½	1	⅞
15	64½	49⅝	60	49⅝	73⅛	52⅛	88⅜	61⅝	83¼	86⅜	78¼	104¾	79¼	79½	94⅛	16	46	122¾	109⅝	150¼	177⅝	158⅛	75¾	5	1	⅞
16	69½	53⅜	64	53⅜	78⅝	55⅞	95¼	66	96¾	102	85	112¾	94¼	94½	110½	16½	48	132	117⅝	161½	207	188⅛	81⅛	5½	1¼	⅞
17	74½	57⅛	68	57⅛	84¼	60⅝	101⅝	70⅝	101¼	108	91	120⅞	99	99	117½	19	52	141½	125⅛	172¾	219½	198	87⅛	6	1¼	1

Double Inlet

Multivane Fan—Design 2

Double Width

Full Housing **Up Blast Discharge** **Overhung Pulley**



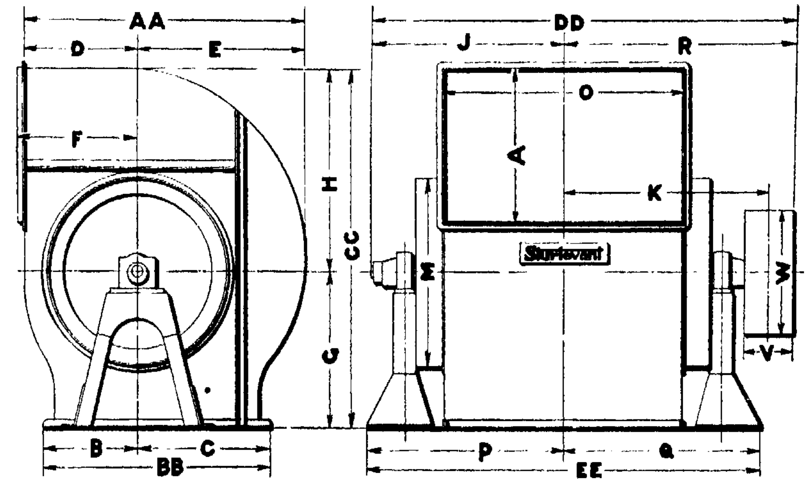
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	Anchor Bolts	
																									Ped.	Fan
2	10⅞	11	8½	13 3/16	9 9/16	9	15	7¾	17	17⅛	12⅜	16⅝	15¾	15¾	18⅞	3½	7	22¾	19½	22¾	35⅞	31½	11¾	1¼	½	½
3	12⅞	14	11	16⅜	11⅞	10⅞	18½	9⅝	19⅞	20¼	15½	20⅝	19	19	22¼	4	8½	28¼	25	28⅛	42⅛	38	14⅝	1⅜	½	½
4	15⅜	17	13	19⅞	14⅛	12⅞	22	11⅝	22½	23½	18½	24⅝	22¼	22¼	26	5	11	34½	30	33⅛	48½	44½	17½	1½	½	½
5	17 13/16	19½	14½	23	16⅜	14 11/16	25	13 7/16	26	27⅛	21½	28⅝	25½	25½	30⅜	6½	12	39⅜	34	38 7/16	56⅜	51	20⅜	1 11/16	½	½
6	20¼	21½	16½	26¼	19	16⅞	30	15⅜	29½	30¼	24½	32⅜	29¼	29¼	33½	6½	14	45¼	38	45⅜	63	58½	23⅜	1 15/16	⅝	⅝
6½	22⅝	24	18	29 9/16	21 7/16	19⅜	32¾	17⅜	32¾	33½	27 11/16	36⅝	33⅛	33⅛	37	7	16	51	42	50⅛	69¾	66¼	26½	2 3/16	⅝	⅝
7	25⅛	26½	19½	32⅝	23⅝	21⅛	35¾	19⅛	35⅝	36½	30½	40⅜	35¾	35¾	40½	8	18	56¼	46	54⅞	75⅞	71½	29¼	2 3/16	⅝	⅝
8	30⅛	31½	23½	39⅛	28⅜	25	41¾	23	41¼	43	36½	48⅝	40¾	40¾	48	10	22	67½	55	64¾	89¼	81½	35	2 7/16	¾	¾
9	35⅛	37½	27½	45⅞	33⅛	28¾	48½	26¾	46⅝	49¼	42½	56¾	46¾	46¾	55½	12½	24	79	65	75¼	102⅛	93½	40⅞	2 11/16	¾	¾
10	40	42½	31½	52¼	37¾	32½	55	30½	52⅜	55⅛	48¾	64¾	51¾	51¾	61⅞	13½	28	90	74	85½	114¾	103½	46½	2 15/16	1	⅞
11	45	46½	34½	58¾	42½	36⅜	61½	34⅜	58⅜	61¼	54¾	72¾	56¾	56¾	68¼	14	32	101¼	81	95⅞	126⅜	113½	52½	3 7/16	1	⅞
12	49⅞	53	40	65⅛	47⅛	40⅝	60⅛	38⅛	65⅛	68⅜	60¼	80¾	63¼	63¼	76⅛	15½	36	112¼	93	98¼	141½	126½	58¼	3 15/16	1	⅞
13	54¾	58	43	71⅝	51⅞	44½	65¾	42	70⅜	73⅜	66¾	88¾	68¼	68¼	81⅜	15½	40	123½	101	107¾	152	136½	64	3 15/16	1	⅞
14	59⅜	63	47	78⅜	56⅜	48¼	71½	45¾	76¾	79¾	72¾	96¾	73¼	73¼	87¾	16	42	135	110	117½	164½	146½	69¾	4½	1	⅞
15	64½	69	51	84⅞	61⅜	52⅛	77⅛	49⅝	83¼	86⅛	78¾	104¾	79¼	79¼	94⅛	16	46	146¼	120	126¾	177⅜	158½	75¾	5	1	⅞
16	69½	73	55	91¼	66	55⅞	82⅜	53⅝	96¾	102	85	112¾	94¼	94¼	110¼	16½	48	157¼	128	136	207	188½	81½	5½	1¼	⅞
17	74½	78	58	97⅝	70⅝	60⅜	88⅛	57¼	101¾	108	91	120⅜	99	99	117½	19	52	168¾	136	145¼	219¼	198	87½	6	1¼	1

Double Inlet

Multivane Fan—Design 2

Double Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**



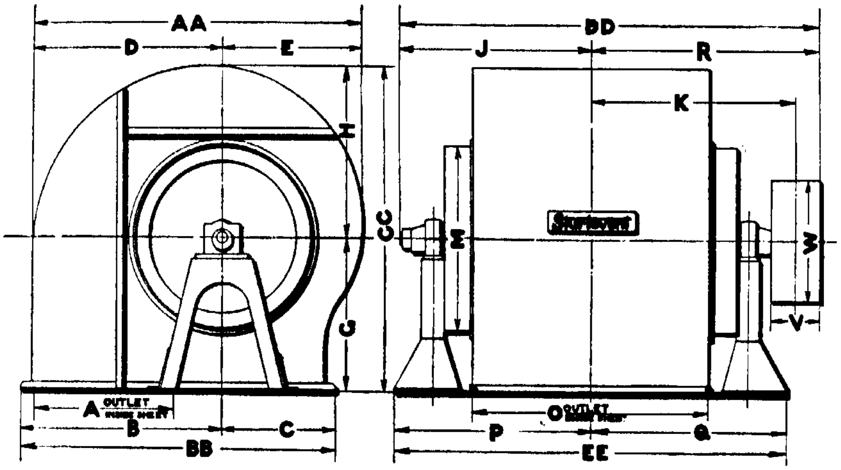
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	Anchor Bolts Ped.	Anchor Bolts Fan
2	10⅝	7	10	7¾	11⅜	9	11	13 3/16	17	17⅛	12⅜	16⅝	15¾	15¾	18⅞	3½	7	19⅜	17	24 3/16	35⅞	31½	11¾	1¼	½	½
3	12⅞	9	12	9⅝	14⅛	10⅞	14	16⅛	19⅞	20¼	15½	20⅝	19	19	22¼	4	8½	23¾	21	30⅞	42⅛	38	14⅜	1¼	½	½
4	15⅜	11	15	11⅝	17⅛	12⅞	16½	19⅞	22½	23½	18½	24⅝	22¼	22¼	26	5	11	28¾	26	38⅜	48½	44½	17½	1½	½	½
5	17 13/16	12½	17½	13 7/16	19 13/16	14 13/16	18½	23	26	27⅛	21½	28⅝	25½	25½	30⅝	6½	12	33¼	30	41½	56⅜	51	20⅜	1 11/16	½	½
6	20¼	13½	19½	15⅜	22⅝	16⅞	20¾	26¼	29½	30¼	24½	32⅝	29¼	29¼	33½	6½	14	38	33	47	63	58½	23⅜	1 15/16	⅝	⅝
6½	22⅝	15	21½	17⅝	25½	19⅜	23½	29 9/16	32¾	33½	27 11/16	36⅞	33⅛	33⅛	37	7	16	42⅞	36½	53 3/16	69¾	66¼	26½	2 3/16	⅝	⅝
7	25⅛	16½	23½	19⅛	28⅛	21⅛	25½	32⅜	35⅜	36½	30½	40⅝	35¾	35¾	40½	8	18	47¼	40	58⅛	75⅞	71½	29¼	2 3/16	⅝	⅝
8	30⅛	19½	27½	23	33¾	25	30¾	39⅛	41¼	43	36½	48⅝	40¾	40¾	48	10	22½	56¾	47	69⅞	89¼	81½	35	2 7/16	¾	¾
9	35⅛	23½	32½	26¾	39½	28¾	35½	45⅞	46⅝	49¼	42½	56¾	46¾	46¾	55½	12½	24	66¼	56	81⅜	102⅛	93½	40¾	2 11/16	¾	¾
10	40	25½	36½	30½	45	32½	40¾	52¼	52⅝	55⅛	48¼	64¾	51¾	51¾	61⅞	13½	28	75½	62	93	114¼	103½	46½	2 15/16	1	⅞
11	45	28½	40⅛	34⅞	50⅝	36⅜	45½	58¾	58⅝	61¼	54¾	72¾	56	56¾	68¼	14	32	85	69	104¼	126⅝	113½	52½	3 7/16	1	⅞
12	49⅞	33	46	38⅛	56⅛	40⅛	51⅛	65⅛	65⅜	68⅞	60¼	80¾	63¼	63¼	76¼	15½	36	94¼	79	116¼	141½	126½	58¼	3 11/16	1	⅞
13	51¼	36	51	42	61¾	44½	55⅞	71⅝	70⅝	73⅞	66¾	88¾	68¼	68¼	81⅜	15½	40	103¾	87	127½	152	136½	64	3 15/16	1	⅞
14	59⅝	39	55	45¾	67½	48¼	60⅝	78⅜	76¾	79¾	72¾	96¾	73¼	73¼	87¾	16	42	113¼	94	139	164½	146½	69¾	4½	1	⅞
15	64½	43	60	49⅜	73⅛	52⅛	65⅜	84⅞	83¼	86⅛	78¾	104¾	79¼	79¼	94⅛	16	46	122¾	103	150¼	177⅜	158½	75¾	5	1	⅞
16	69½	45	64	53⅞	78⅝	55⅞	70	91¼	96¾	102	85	112¾	94¼	94¼	110¼	16½	48	132	109	161¼	207	188½	81½	5½	1¼	⅞
17	74½	48	68	57⅛	84⅛	60⅝	74⅝	97⅝	101¾	108	91	120⅞	99	99	117½	19	52	141½	116	172¼	219¼	198	87½	6	1¼	1

Double Inlet

Multivane Fan—Design 2

Double Width

Full Housing **Down Blast Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Ex. Wheel Dia	Shaft Dia.	Anchor Bolts	
																								Ped.	Fan
2	9¾	14 11/16	8½	13 3/16	9 5/16	11	11⅝	17	17⅝	12⅜	16	15¾	15¾	18⅞	3½	7	22¾	23 3/16	22⅝	35⅞	31½	11¾	1¼	½	½
3	12¼	18⅝	11	16⅝	11⅞	14	14¼	19⅞	20¼	15½	20	19	19	22½	4	8½	28½	29⅝	28¼	42⅜	38	14⅝	1⅜	½	½
4	14¾	21⅜	13	19⅞	14⅝	16½	17⅛	22½	23½	18½	24	22¼	22¼	26	5	11	34½	34⅜	33⅝	48½	44½	17½	1½	½	½
5	17 3/16	25½	14½	23	16⅜	18½	19 15/16	26	27⅛	21½	28	25½	25½	30⅝	6⅛	12	39⅜	40	38 7/16	56⅝	51	20⅝	1 11/16	⅝	⅝
6	19⅝	28¾	16½	26¼	19	20¾	22⅝	29½	30¼	24½	32	29¼	29¼	33½	6½	14	45¼	45¼	43⅜	63	58½	23⅝	1 15/16	⅝	⅝
6½	22	32 1/16	18	29 3/16	21 13/16	23½	25½	32¾	33½	27 11/16	36	33¼	33¼	37	7	16	51	50 1/16	49	69¾	66½	26⅛	2 3/16	⅝	⅝
7	24½	35⅛	19½	32⅞	23⅝	25½	28⅛	35⅜	36½	30½	40	35¾	35¾	40½	8	18	56½	54⅝	53⅝	75⅞	71½	29¾	2 3/16	⅝	⅝
8	29½	41⅝	23½	39⅛	28⅜	30¾	33¾	41¼	43	36½	48	40¾	40¾	48	10	22	67½	65⅛	64½	89¼	81½	35	2 7/16	¾	¾
9	34⅝	49⅜	27½	45⅞	33⅛	35½	39½	46⅝	49¾	42½	56	46¾	46¾	55½	12½	24	79	76⅞	75	102⅛	93½	40¾	2 11/16	¾	¾
10	39¾	55¾	31½	52¼	37¾	40¾	45	52⅞	55⅛	48¾	64	51¾	51¾	61⅜	13½	28	90	87¼	85¾	114¼	103½	46½	2 15/16	1	⅞
11	44¼	62¼	34½	58¾	42½	45¼	50⅞	58⅞	61¼	54¾	72	56¾	56¾	68¼	14	32	101¼	96¾	96⅛	126⅝	113½	52½	3 7/16	1	⅞
12	49⅛	70⅛	40	65¼	47⅛	42⅛	56⅛	65⅞	68⅞	60¾	80	63¼	63¼	76⅛	15½	36	112¾	110⅛	98¼	141½	126½	58¼	3 11/16	1	⅞
13	54	76⅝	43	71⅞	51¾	46	61¾	70⅝	73⅞	66¾	88	68¼	68¼	81⅜	15½	40	123½	119⅝	107¾	152	136½	64	3 15/16	1	⅞
14	58¾	83⅜	47	78⅜	56⅝	49¾	67½	76¾	79¾	72¾	96	73¼	73¼	87¾	16	42	135	130⅜	117¼	164½	146½	69¾	4½	1	⅞
15	63¾	90⅜	51	84⅞	61⅝	53½	73¼	83¼	86⅛	78¾	104	79¼	79¼	94⅛	16	46	146¼	141⅜	126¾	177⅜	158½	75¾	5	1	⅞
16	68¾	97¼	55	91¼	66	57⅜	78⅝	96¾	102	85	112	94¼	94¼	110¼	16½	48	157¼	152¼	136	207	188½	81½	5½	1¼	⅞
17	73⅝	103⅝	58	97⅝	70⅝	61⅛	84⅛	101¾	108	91	120	99	99	117½	19	52	168¼	161⅝	145¼	219¼	198	87½	6	1¼	1

Double Inlet

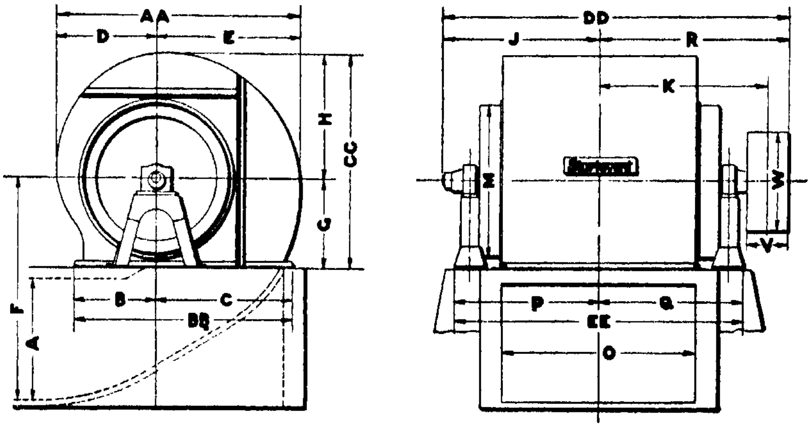
Multivane Fan—Design 2

Double Width

⅞ Housing

Bottom Horizontal Discharge

Overhung Pulley



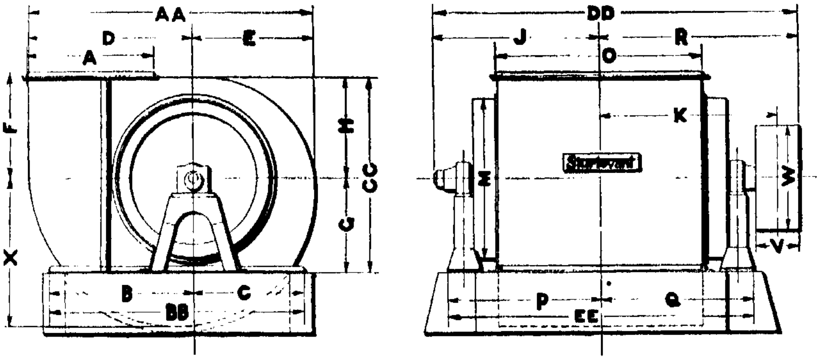
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Ped.	Fan
10	39½	27½	45¾	32⅞	47⅜	72⅝	29⅛	40⅛	52⅜	55⅛	48¾	64	48¼	48¼	61⅞	13½	28	80¼	73¼	69¼	114¼	96½	46½	2 15/16	1	⅞
11	44½	30½	51	37⅛	53⅜	80⅝	32¼	45¼	58⅜	61¼	54¾	72	54	54	68¼	14	32	90½	81½	77⅜	126⅜	108	52½	3 7/16	1	⅞
12	49⅝	35	57½	41⅛	59⅛	90	36⅛	50⅛	65⅜	68⅝	60¾	80	60⅛	60⅛	76⅛	15½	36	100¼	92½	86¾	141⅛	120¼	58¼	3 11/16	1	⅞
13	54¼	38	62¾	45¼	65	98⅛	39⅞	55⅛	70⅝	73⅜	66¾	88	65⅞	65⅞	81⅜	15½	40	110¼	100¾	95	152	131¾	64	3 15/16	1	⅞
14	59⅛	42	68½	49⅜	71⅛	106	42¾	60½	76¼	79¾	72¾	96	71½	71½	87¾	16	42	120½	110½	103⅛	164½	142½	69¾	4½	1	⅞
15	64	45½	75	53⅜	77⅛	113⅝	45⅝	65⅜	83½	86⅛	78¾	104	77⅝	77⅝	94⅛	16	46	130¾	120½	111	177⅝	155¼	75¾	5	1	⅞
16	69	47	80¼	57⅝	82⅞	121⅞	48⅞	70¼	96¾	102	85	112	94½	94¼	110¼	16½	48	140½	127¼	119⅛	207	188½	81½	5½	1¼	⅞
17	73⅞	51½	85½	61⅝	88⅝	130	52⅛	75⅜	101¾	108	91	120	99	99	117½	19	52	150¼	137	127¼	219¼	198	87½	6	1¼	1
18	78⅝	59½	90⅝	65¾	94⅜	137⅞	55¼	80½	106		97⅛	128	103½	103½				160½	150⅝	135½		207	93¼	6	1¼	1
20	88½	66	101½	74	106½	153¾	61¼	90¼	115½		109¼	144	110⅝	110⅝				180½	167½	151½		221¼	105	8	1¼	1
22	98¼	73	111¾	82¼	118¼	170¼	68	100¼	125½		121⅞	160	121½	121½				200½	184¾	168¼		243	116½	8	1¼	1
24	108	79	122¾	90⅜	130⅛	186	74	110¼	135½		133⅜	176	132½	132½				220½	201¾	184¼		265	128	8	1¼	1¼
26	117¾	86	133½	98⅝	141⅞	201¾	80	120¼	145		145½	192	143	143				240½	219⅝	200¼		286	140	8	1¼	1¼

Double Inlet

Multivane Fan—Design 2

Double Width

⅞ Housing **Up Blast Discharge** **Overhung Pulley**



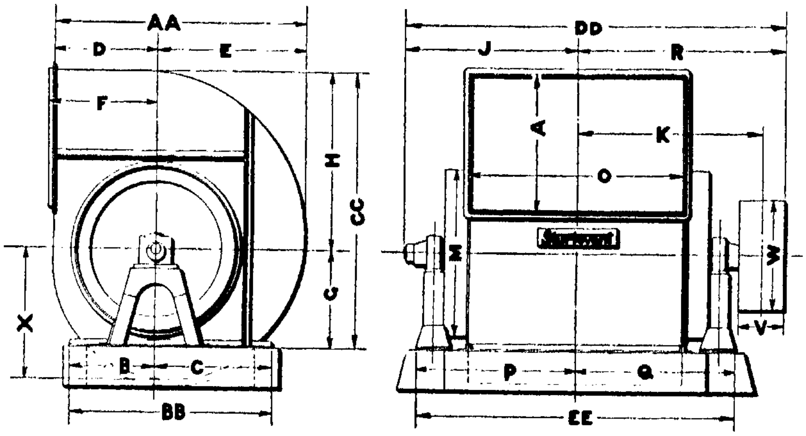
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	An. Bolts Ped.	An. Bolts Fan
10	40	45¾	31¼	52¼	37¾	32½	29⅛	30½	52⅜	55⅛	48¾	64¾	48¼	48¼	61⅞	13½	28	45	90	80½	59⅝	114¼	96½	46½	2 13/16	1	⅞
11	45	51	38¾	58¾	42½	36⅝	32⅝	34⅞	58⅜	61¼	54¾	72¾	51	54	68¼	14	32	50⅝	101¼	89¾	66½	126⅝	108	52½	3 7/16	1	⅞
12	49⅞	57½	43¼	65⅛	47⅛	40⅜	36⅝	38⅛	65⅜	68⅜	60¾	80¾	60¼	60¼	76⅛	15½	36	56⅛	112¼	101¼	74¾	141½	120¼	58¼	3 15/16	1	⅞
13	54¼	62¾	47¼	71⅝	51⅞	44½	39⅞	42	70⅜	73⅜	66¾	88¾	65⅞	65⅞	81⅝	15½	40	61¾	123½	110½	81⅞	152	131¾	64	3 15/16	1	⅞
14	59⅞	68½	51¾	78⅜	56⅝	48¼	42⅞	45½	76¾	79¾	72¾	96¾	71¼	71¼	87¾	16	42	67½	135	120¼	88⅝	164½	142½	69¾	4½	1	⅞
15	61½	75	57¼	81⅞	61⅞	52⅛	45⅝	49⅝	83¼	86⅛	78¾	104¼	77⅝	77⅝	94⅛	16	46	73⅛	146¾	132¼	95¼	177⅜	155¼	75¾	5	1	⅞
16	69½	80½	60¼	91¼	66	55⅞	48⅞	53⅝	96¾	102	85	112¾	94¼	94¼	110¼	16½	48	78⅝	157¼	140	102¼	207	188½	81½	5½	1¼	⅞
17	74½	85½	64¼	97⅜	70⅞	60⅛	52⅛	57⅛	101¾	108	91	120⅞	99	99	117½	19	52	84⅛	168¼	150¼	109¼	219¼	198	87½	6	1¼	1
18	79¼	90⅞	68¼	104⅜	75⅜	64⅜	55¼	60⅛	106		97⅛	128⅞	103½	103½				89⅞	179¾	159⅜	115⅛		207	93¼	6	1¼	1
20	89⅛	101½	76¼	117¼	84¾	72	61¼	68½	115½		109¼	144⅞	110⅜	110⅜				101	202	178¼	129¾		221¼	105	8	1¼	1
22	98⅞	111¾	81½	130¼	94¼	79⅜	68	76¼	125½		121⅜	160⅞	121½	121½				112¼	224½	196¼	144¼		243	116½	8	1¼	1
24	108¾	122¾	92½	143⅜	103⅝	88¼	74	83¾	135½		133⅜	177	132½	132½				123½	247	215¼	157¾		265	128	8	1¼	1⅛
26	118½	133½	100½	156¼	113	95⅞	80	91⅜	145		145½	193	143	143				134⅜	269¼	234	171⅜		286	140	8	1¼	1⅛

Double Inlet

Multivane Fan—Design 2

Double Width

⅞ Housing **Top Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Ped.	Anchor Bolts Fan
10	40	25¾	36	30½	45	32⅝	29⅛	52¼	52⅜	55⅛	48¾	64¾	48¼	48¼	61⅞	13½	28	37¾	75½	61¾	81⅜	114¼	96½	46½	2 15/16	1	⅞
11	45	28¾	40¼	34⅛	50⅝	36⅜	32⅛	58¾	58⅜	61¼	54¾	72¾	54	54	68¼	14	32	42½	85	69	90⅞	126⅜	108	52½	3 7/16	1	⅞
12	49⅞	32½	45½	38⅛	56⅛	40⅛	36⅝	65⅛	65⅞	68⅜	60¾	80¾	60⅛	60⅛	76⅛	15½	36	47⅛	94¼	78	101¾	141½	120¼	58¼	3 11/16	1	⅞
13	54¾	35½	49½	42	61¾	44½	39⅞	71⅝	70⅝	73⅝	66¾	88¾	65⅞	65⅞	81⅜	15½	40	51⅞	103¾	85	111½	152	131¾	64	3 15/16	1	⅞
14	59⅝	38¼	53¾	45¾	67½	48¼	42⅞	78⅜	76¾	79¾	72¾	96¾	71¼	71¼	87½	16	42	56⅞	113¼	92	121¼	164½	142½	69¾	4½	1	⅞
15	64½	42½	59½	49⅝	73⅛	52⅛	45⅝	84⅞	83¼	86⅛	78¾	104¾	77⅝	77⅝	94⅛	16	46	61⅜	122¾	102	130½	177⅜	155¼	75¼	5	1	⅞
16	69½	45	63¼	53⅜	78⅜	55⅞	48⅞	91¼	96¼	102	85	112¾	94¼	94¼	110¼	16½	48	66	132	108¼	140⅛	207	188½	81½	5½	1¼	⅞
17	74½	48	67½	57⅛	84⅛	60⅝	52⅛	97⅝	101¾	108	91	120⅞	99	99	117½	19	52	70⅝	141¼	115½	149¾	219¼	198	87½	6	1¼	1
18	79¼	50¾	71⅝	60⅞	89⅞	64⅛	55¼	104⅜	106		97⅛	128⅞	103½	103½				75⅝	150¾	122⅜	159⅝		207	93¼	6	1¼	1
20	89⅛	56¾	80¼	68½	101	72	61¼	117¼	115½		109¼	144⅞	110⅝	110⅝				84¾	169½	137	178½		221¼	105	8	1¼	1
22	98⅞	62¼	88¼	76¼	112¼	79¾	68	130¼	125½		121⅞	160⅞	121½	121½				94¼	188½	150½	198¼		243	116½	8	1¼	1
24	108¾	68	96¾	83¾	123½	88¼	74	143⅜	135½		133⅝	177	132½	132½				103⅞	207¼	164¾	217⅞		265	128	8	1¼	1⅛
26	118½	73¼	105¼	91¾	134⅝	95⅞	80	156¼	145		145½	193	143	143				113	226	179	236¼		286	140	8	1¼	1⅛

Single Inlet

No. 2 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
349	1050	179	436	0 02												
400	1200	233	665	0 03												
466	1400	316	836	0 06												
532	1600	412	1000	0 08	825	0.07										
598	1800	520	1150	0 12	1,040	0 12	653	0 07								
665	2000	645			1,210	0.17	1,060	0.14								
731	2200	780			1,370	0 22	1,270	0 22	1,070	0.17						
797	2400	930			1,530	0 29	1,430	0 29	1,320	0.26	1,080	0 21				
864	2600	1 09			1,680	0 37	1,590	0 37	1,510	0 40	1,390	0.32	1,120	0 25		
930	2800	1 26					1,750	0 46	1,670	0 46	1,600	0.44	1,460	0.39	1,180	0 31
996	3000	1 45					1,910	0 57	1,840	0 57	1,770	0.56	1,680	0.53	1,540	0 48
1062	3200	1 65					2,070	0 69	1,900	0 69	1,940	0 69	1,860	0 68	1,780	0.64
1130	3400	1 86							2,160	0 82	2,090	0 82	2,020	0 82	1,970	0 82
1196	3600	2 10							2,310	0 98	2,240	0 97	2,180	0 99	2,130	0 98
1262	3800	2 32									2,410	1 20	2,360	1 20	2,300	1 20
1329	4000	2 58									2,560	1 30	2,520	1 35	2,450	1 30
1396	4200	2 85											2,670	1 55	2,610	1 50
1462	4400	3 13											2,820	1 8	2,770	1 80
1528	4600	3 41													2,930	2 10
1594	4800	3 70													3,090	2 30

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
996	3000	1 45	1,290	0 39												
1062	3200	1 65	1,640	0 58												
1130	3400	1 86	1,880	0.76	1,540	0 60										
1196	3600	2 10	2,070	0 98	1,870	0 83	1,400	0 62								
1262	3800	2 32	2,240	1 10	2,110	1.00	1 830	0 90								
1329	4000	2 58	2,390	1 30	2,290	1.30	2,110	1 10	1,770	0 96						
1396	4200	2 85	2,560	1 50	2,470	1 50	2,340	1.40	2,130	1 30	1,720	1 05				
1462	4400	3 13	2,740	1 80	2,630	1 80	2,530	1 70	2,390	1 60	2,140	1.40				
1528	4600	3 41	2,890	2 10	2,800	2 00	2,700	2 00	2,600	1.90	2,430	1 80	1,620	1 10		
1594	4800	3 70	3,040	2 30	2,950	2 30	2,870	2 30	2,780	2 20	2,650	2.10	2,160	1 60		
1662	5000	4 05	3,190	2 70	3,110	2 70	3,030	2 60	2,940	2 60	2,830	2 60	2,510	2 10	1,640	1 40
1745	5250	4 44			3,310	3 10	3,240	3 10	3,140	3 10	3,060	3 00	2,830	2 70	2,360	2 20
1828	5500	4 88			3,490	3 50	3,430	3.50	3,340	3 50	3,260	3 50	3,100	3.30	2,790	2 90
1910	5750	5 33			3,690	4 00	3,620	4 00	3,550	4 00	3,480	4 0	3,330	3 90	3,100	3 50
1993	6000	5 80					3,820	4 55	3,740	4 50	3,680	4.5	3,540	4 5	3,350	4.20
2076	6250	6 30							3,940	5 1	3,880	5 1	3,740	5 1	3,590	5 0
2160	6500	6 81							4,140	5 8	4,060	5 8	3,940	5 8	3,820	5 7
2240	6750	7 34							4,330	6 5	4,280	6 5	4,140	6 5	4,020	6 5
2325	7000	7 89									4,460	7 3	4,340	7 3	4,230	7.3
2490	7500	9 06											4 730	9	4,610	9 0
2660	8000	10 32													5,010	11 0
2820	8500	11 63													5,410	13 0

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1828	5500	4 88	2,100	2 10												
1910	5750	5 33	2,700	3 10	1,720	2 00										
1993	6000	5 80	3,090	3 80	2,570	3 10										
2076	6250	6 30	3,410	4 60	3,060	3 9										
2160	6500	6 81	3,660	5.50	3,420	4 9	2,280	3.30								
2240	6750	7 34	3,880	6 3	3,690	5.9	2,970	4 50								
2325	7000	7 89	4,100	7 2	3,940	6 8	3,440	5 5								
2490	7500	9 06	4,500	8 9	4,390	8 8	4,080	8.0	3,480	6 6						
2660	8000	10 32	4,900	11.0	4,810	11 0	4,570	10 0	4,240	9 4	3,530	7 1				
2820	8500	11 63	5,300	13.0	5,200	13 0	5,010	12 5	4,780	12.	4,370	11 0	3,650	8 9		
2990	9000	13 05	5,690	15 5	5,600	15 5	5,430	15 5	5,200	15	4,980	14.0	4,570	12 5	3,840	10 5
3160	9500	14 53	6,080	18	6,000	18	5,810	18.	5,650	18	5,450	17 5	5,190	16.5	4,780	14 5
3320	10000	16 20			6,380	21.	6 230	21	6,060	21	5,880	21	5,700	20 5	5,450	19.

Single Inlet

No. 3 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
279	1050	.179	682	0.02												
318	1200	.233	1,040	0.05												
371	1400	.316	1,310	0.09												
424	1600	.412	1,560	0.13	1,290	0.11										
477	1800	.520	1,800	0.18	1,620	0.18	1,020	0.11								
530	2000	.645			1,890	0.26	1,660	0.23								
583	2200	.780			2,140	0.35	1,980	0.34	1,670	0.27						
636	2400	.930			2,400	0.45	2,230	0.45	2,070	0.41	1,690	0.33				
689	2600	1.09			2,630	0.58	2,480	0.58	2,360	0.56	2,170	0.51	1,750	0.40		
742	2800	1.26					2,740	0.72	2,610	0.72	2,490	0.69	2,280	0.61	1,840	0.48
795	3000	1.45					2,980	0.89	2,870	0.89	2,760	0.88	2,630	0.84	2,410	0.75
848	3200	1.65					3,220	1.1	3,110	1.10	3,020	1.10	2,910	1.00	2,780	1.00
901	3400	1.86							3,360	1.30	3,260	1.30	3,160	1.30	3,080	1.20
954	3600	2.10							3,600	1.50	3,510	1.50	3,420	1.50	3,330	1.50
1007	3800	2.32									3,760	1.80	3,680	1.80	3,580	1.80
1060	4000	2.58									3,900	2.10	3,930	2.10	3,820	2.10
1113	4200	2.85											4,170	2.40	4,080	2.40
1166	4400	3.13											4,400	2.80	4,320	2.80
1220	4600	3.41													4,580	3.20
1273	4800	3.70													4,820	3.60

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
795	3000	1.45	2,010	0.61												
848	3200	1.65	2,560	0.90												
901	3400	1.86	2,930	1.20	2,400	0.94										
954	3600	2.10	3,240	1.50	2,910	1.30	2,190	0.97								
1007	3800	2.32	3,500	1.80	3,290	1.60	2,850	1.40								
1060	4000	2.58	3,730	2.10	3,570	2.00	3,290	1.80	2,760	1.50						
1113	4200	2.85	4,000	2.40	3,850	2.40	3,650	2.30	3,330	2.0	2,680	1.6				
1166	4400	3.13	4,270	2.80	4,100	2.80	3,950	2.70	3,720	2.50	3,340	2.2				
1220	4600	3.41	4,510	3.20	4,370	3.20	4,220	3.10	4,000	3.0	3,780	2.8	2,520	1.8		
1273	4800	3.70	4,750	3.60	4,600	3.60	4,470	3.60	4,350	3.5	4,130	3.3	3,360	2.6		
1326	5000	4.05	4,980	4.10	4,850	4.10	4,730	4.10	4,600	4.1	4,420	4.0	3,920	3.3	2,570	2.20
1392	5250	4.41			5,170	4.80	5,050	4.80	4,900	4.8	4,780	4.7	4,420	4.2	3,680	3.4
1459	5500	4.88			5,460	5.50	5,350	5.50	5,220	5.5	5,100	5.5	4,850	5.2	4,340	4.5
1524	5750	5.33			5,770	6.30	5,650	6.30	5,550	6.3	5,430	6.3	5,200	6.1	4,840	5.6
1590	6000	5.80							5,850	7.1	5,750	7.1	5,510	7.1	5,240	6.6
1658	6250	6.30							6,150	7.9	6,050	7.9	5,820	7.9	5,600	7.8
1723	6500	6.81							6,480	8.9	6,350	8.9	6,150	8.9	5,950	8.9
1790	6750	7.34							6,776	10.	6,670	10.0	6,470	10.0	6,270	10.0
1856	7000	7.89									6,960	11.5	6,780	11.5	6,600	11.5
1990	7500	9.06											7,400	14.0	7,200	14
2120	8000	10.32													7,820	17
2258	8500	11.63													8,450	20.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1459	5500	4.88	3,270	3.4												
1524	5750	5.33	4,220	4.70	2,680	3.10										
1590	6000	5.80	4,820	6.0	4,020	4.90										
1658	6250	6.30	5,310	7.2	4,780	6.10										
1723	6500	6.81	5,700	8.6	5,320	7.60	3,560	5.20								
1790	6750	7.34	6,050	9.9	5,770	9.20	4,640	7.10								
1856	7000	7.89	6,410	11.	6,160	10.50	5,360	8.70								
1990	7500	9.06	7,040	14.	6,850	14.00	6,400	12.50	5,430	10.5						
2120	8000	10.32	7,640	17.	7,500	17.00	7,100	16.00	6,630	14.5	5,500	12				
2258	8500	11.63	8,280	20	8,130	20.00	7,820	20.00	7,450	19.0	6,830	17	5,700	14		
2390	9000	13.05	8,900	24	8,750	24.00	8,500	24.00	8,120	23.5	7,780	22.	7,140	20.	6,000	10.5
2520	9500	14.53	9,500	28.	9,360	28.00	9,080	28.00	8,810	28.	8,520	28.	8,100	26.	7,460	23.0
2650	10000	16.20			9,950	33.00	9,720	33.00	9,480	33.	9,180	33.	8,900	32.	8,510	30.0

Single Inlet **Single Width**

No. 4 Multivane Fan — Design 2

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
231	1050	179	987	0 03												
265	1200	233	1,500	0 07												
309	1400	316	1,890	0 130												
353	1600	412	2,260	0 18	1,860	0 16										
397	1800	520	2,600	0 26	2,340	0 27	1,530	0 17								
412	2000	615			2,730	0 38	2,400	0 33								
486	2200	780			3,100	0 51	2,860	0 50	2,420	0 39						
530	2400	930			3,470	0 66	3,230	0 66	2,990	0 60	2 440	0 48				
573	2600	1 09			3,800	0 81	3,600	0 84	3,410	0 81	3,140	0 73	2,530	0 58		
618	2800	1 26					3,970	1 0	3,780	1 0	3,600	1 0	3,300	0 89	2,660	0 71
662	3000	1 45					4,320	1 30	4,150	1 3	4,000	1 2	3,800	1 2	3,490	1 10
706	3200	1 65					4,670	1 5	4,500	1 5	4,370	1 5	4,200	1 5	4,020	1 4
750	3400	1 86							4,870	1 8	4,720	1 8	4,570	1 8	4,450	1 8
794	3600	2 10							5,210	2 2	5,070	2 2	4,940	2 2	4,810	2 2
838	3800	2 32									5,440	2 7	5,330	2 7	5,180	2 7
883	4000	2 58									5,770	3 0	5,680	3 0	5,540	3 0
927	4200	2 85											6,030	3 5	5,900	3 4
970	4400	3 13											6,360	4 0	6,250	4 0
1015	4600	3 41													6,620	4 6
1059	4800	3 70													6,970	5 3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
662	3000	1 15	2,910	0 89												
706	3200	1 65	3,710	1 3												
750	3400	1 86	4,240	1 7	3,470	1 3										
794	3600	2 10	4,680	2 2	4,210	1 9	3,160	1 4								
838	3800	2 32	5,060	2 6	4,760	2 4	4,130	2 0								
883	4000	2 58	5,400	3 0	5,160	2 9	4,750	2 6	4,000	2 1						
927	4200	2 85	5,790	3 5	5,570	3 4	5 270	3 3	4,810	2 9	3,880	2 3				
970	4400	3 13	6 180	4 0	5,940	4 0	5,710	3 9	5,380	3 6	4,830	3 2				
1015	4600	3 41	6,530	4 6	6,330	4 6	6,100	4 6	5,890	4 3	5,480	4 0	3,650	2 6		
1059	4800	3 70	6,860	5 3	6,670	5 3	6,470	5 3	6,300	5 2	5,970	4 8	4,870	3 8		
1103	5000	4 05	7,210	6	7,030	6 0	6,850	6.0	6,640	6 0	6,400	5 8	5,660	4 8	3,720	3 2
1159	5250	4 44			7,470	7 0	7,300	7 0	7,100	7 0	6,910	6 8	6,400	6 1	5,330	4 9
1213	5500	4 88			7,900	7 9	7,750	7 9	7,540	7 9	7,380	7 9	7,010	7 5	6,290	6 5
1269	5750	5 33			8,340	9	8,160	9 0	8,030	9 0	7,850	9 1	7,530	8 9	7,010	8 1
1323	6000	5 80					8,640	10 5	8,460	10 5	8,300	10 0	8,000	10 0	7,580	9 6
1380	6250	6 30							8,890	11 5	8,760	11 5	8,440	11 5	8,110	11 5
1434	6500	6 81							9,360	13 0	9,190	13 0	8,890	13 0	8,530	13 0
1490	6750	7 31							9,770	14 5	9,640	14 5	9,360	14 5	9,080	14 5
1544	7000	7 89									10,100	16 5	9,820	16 5	9,550	16 5
1650	7500	9 06											10,700	20 0	10,400	20
1760	8000	10 32													11,300	25.
1870	8500	11 63													12,210	29.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1213	5500	4 88	4,740	4 9												
1269	5750	5 33	6,100	6 8	3,880	4 5										
1323	6000	5 80	6,980	8 7	5,810	7 1										
1380	6250	6 30	7,700	10 5	6,910	8 9										
1434	6500	6 81	8,260	12 5	7,710	11 0	5,150	7 5								
1490	6750	7 34	8,760	14 5	8,350	13 5	6,710	10 5								
1544	7000	7 89	9,260	16 0	8,900	15 5	7,770	12 5								
1650	7500	9 06	10,200	20 0	9,920	20 0	9,240	18	7,850	15						
1760	8000	10 32	11,100	25	10,900	24 5	10,400	23	9,600	21	7,870	17				
1870	8500	11.63	12,000	29	11,800	29	11,300	29	10,800	27	9,880	24 5	8,250	20		
1980	9000	13 05	12,900	35	12,700	35	12,300	35	11,800	34	11,300	32.	10,300	29	8,690	24
2000	9500	14 53	13,800	41	13,600	41	13,100	41.	12,800	41.	12,300	40	11,700	37	10,800	33.
2200	10000	16 20			14,400	18	14,100	48.	13,700	48	13,300	48	12,900	46	12,300	43.

Single Inlet

No. 5 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
190	1050	.179	1,330	0.050												
227	1200	.233	2,030	0.105												
265	1400	.316	2,550	0.175												
303	1600	.412	3,050	0.25	2,520	0.22										
341	1800	.520	3,510	0.35	3,160	0.365	2,070	0.23								
379	2000	.645			3,690	0.52	3,240	0.45								
417	2200	.780			4,180	0.69	3,800	0.67	3,260	0.54						
455	2400	.930			4,680	0.88	4,350	0.88	4,030	0.81	3,300	0.65				
492	2600	1.09			5,130	1.15	4,850	1.15	4,600	1.10	4,240	0.99	3,410	0.78		
530	2800	1.26					5,350	1.40	5,100	1.40	4,860	1.35	4,460	1.20	3,500	0.95
568	3000	1.45					5,820	1.75	5,600	1.75	5,400	1.70	5,130	1.65	4,700	1.45
606	3200	1.65					6,300	2.1	6,070	2.1	5,900	2.1	5,670	2.05	5,420	1.95
644	3400	1.86							6,570	2.5	6,370	2.5	6,170	2.50	6,010	2.50
682	3600	2.10							7,020	3	6,850	3.0	6,670	3.00	6,500	3.00
720	3800	2.32									7,350	3.5	7,200	3.50	7,000	3.50
758	4000	2.58									7,800	4.1	7,660	4.10	7,470	4.10
795	4200	2.85											8,150	4.75	7,960	4.75
833	4400	3.13											8,600	5.5	8,450	5.5
871	4600	3.41													8,950	6.3
908	4800	3.70													9,410	7.1

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
568	3000	1.45	3,920	1.20												
606	3200	1.65	5,000	1.75												
644	3400	1.86	5,720	2.20	4,680	1.80										
682	3600	2.10	6,320	2.95	5,690	2.55	4,270	1.90								
720	3800	2.32	6,830	3.50	6,420	3.25	5,580	2.75								
758	4000	2.58	7,290	4.10	6,970	4.0	6,420	3.6	5,400	2.90						
795	4200	2.85	7,810	4.75	7,500	4.7	7,120	4.5	6,500	3.95	5,230	3.15				
833	4400	3.13	8,350	5.5	8,010	5.5	7,710	5.4	7,270	4.9	6,510	4.3				
871	4600	3.41	8,810	6.3	8,550	6.3	8,250	6.2	7,940	6.0	7,400	5.4	4,930	3.55		
908	4800	3.70	9,260	7.1	9,000	7.1	8,740	7.1	8,500	6.9	8,060	6.5	6,570	5.1		
947	5000	4.05	9,730	8.1	9,500	8.1	9,250	8.1	8,960	8.1	8,650	7.8	7,650	6.6	5,020	4.35
994	5250	4.41			10,100	9.4	9,850	9.4	9,590	9.4	9,350	9.2	8,650	8.2	7,200	6.7
1042	5500	4.88			10,700	10.5	10,500	10.5	10,200	10.5	9,960	10.5	9,460	10.0	8,500	8.8
1090	5750	5.33			11,300	12.	11,000	12	10,800	12.0	10,600	12.0	10,200	12.0	9,460	11.0
1136	6000	5.80					11,700	14	11,400	14.0	11,200	14.0	10,800	14.0	10,200	13.0
1183	6250	6.30							12,000	15.5	11,800	15.5	11,400	15.5	11,000	15.5
1230	6500	6.81							12,600	17.5	12,400	17.5	12,000	17.5	11,600	17.5
1278	6750	7.34							13,200	20	13,000	20	12,600	20	12,300	20
1325	7000	7.89									13,600	22	13,250	22	12,900	22
1420	7500	9.06											14,400	27	14,100	27
1511	8000	10.32													15,300	33.
1610	8500	11.63													16,500	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1042	5500	4.88	6,400	6.6												
1090	5750	5.33	8,250	9.2	5,220	6.1										
1136	6000	5.80	9,410	11.5	7,850	9.6										
1183	6250	6.30	10,400	14	9,350	12										
1230	6500	6.81	11,200	17.	10,400	15.	6,950	10.0								
1278	6750	7.34	11,800	19	11,300	18.	9,060	14.0								
1325	7000	7.89	12,500	22	12,100	21	10,500	17.0								
1420	7500	9.06	13,800	27	13,400	27	12,500	24.5	10,600	20						
1514	8000	10.32	14,900	33	14,700	33	14,000	31.	13,000	29	10,800	23.				
1610	8500	11.63	16,200	40	15,900	40	15,300	39	14,600	37.	13,300	33	11,100	27.		
1700	9000	13.05	17,400	47	17,100	47	16,600	47.	15,900	46.	15,200	43.	13,900	39.	11,700	32.
1795	9500	14.53	18,600	56	18,300	56	17,700	56.	17,200	56	16,600	54.	15,800	50.	14,600	45.
1894	10000	16.20			19,500	64.	19,000	64.	18,500	64	17,900	64	17,400	62.	16,600	58.

Single Inlet # No. 4 Multivane Fan — Design 2 **Single Width**

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼″ Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜″ Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½″ Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝″ Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾″ Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞″ Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
231	1050	179	987	0 03												
265	1200	233	1,500	0 07												
309	1400	316	1,890	0 130												
353	1600	412	2,260	0 18	1,860	0 16										
397	1800	520	2,600	0 26	2,340	0 27	1,530	0 17								
442	2000	645			2,730	0 38	2,400	0 33								
486	2200	780			3,100	0 51	2,860	0 50	2,420	0 39						
530	2400	930			3,470	0 66	3,230	0 66	2,990	0 60	2 440	0 48				
573	2600	1 09			3,800	0 81	3,600	0 84	3,410	0 81	3,140	0 73	2,530	0 58		
618	2800	1 26					3,970	1 0	3,780	1 0	3,600	1 0	3,300	0 89	2,660	0 71
662	3000	1 45					4,320	1 30	4,150	1 3	4,000	1 2	3,800	1 2	3,490	1 10
706	3200	1 65					4,670	1 5	4,500	1 5	4,370	1 5	4,200	1 5	4,020	1 4
750	3400	1 86							4,870	1 8	4,720	1 8	4,570	1 8	4,450	1 8
794	3600	2 10							5,210	2 2	5,070	2 2	4,940	2 2	4,810	2 2
838	3800	2 32									5,440	2 7	5,330	2 7	5,180	2 7
883	4000	2 58									5,770	3 0	5,680	3 0	5,540	3 0
927	4200	2 85											6,030	3 5	5,900	3 4
970	4400	3 13											6,360	4 0	6,250	4 0
1015	4600	3 41													6,620	4 6
1059	4800	3 70													6,970	5 3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
662	3000	1 15	2,910	0 89												
706	3200	1 65	3,710	1 3												
750	3400	1 86	4,240	1 7	3,470	1 3										
794	3600	2 10	4,680	2 2	4,210	1 9	3,160	1 4								
838	3800	2 32	5,060	2 6	4,760	2 4	4,130	2 0								
883	4000	2 58	5,400	3 0	5,160	2 9	4,750	2 6	4,000	2 1						
927	4200	2 85	5,790	3 5	5,570	3 4	5 270	3 3	4,810	2 9	3,880	2 3				
970	4400	3 13	6 180	4 0	5,940	4 0	5,710	3 9	5,380	3 6	4,830	3 2				
1015	4600	3 41	6,530	4 6	6,330	4 6	6,100	4 6	5,890	4 3	5,480	4 0	3,650	2 6		
1059	4800	3 70	6,860	5 3	6,670	5 3	6,470	5 3	6,300	5 2	5,970	4 8	4,870	3 8		
1103	5000	4 05	7,210	6	7,030	6 0	6,850	6.0	6,640	6 0	6,400	5 8	5,660	4 8	3,720	3 2
1159	5250	4 44			7,470	7 0	7,300	7 0	7,100	7 0	6,910	6 8	6,400	6 1	5,330	4 9
1213	5500	4 88			7,900	7 9	7,750	7 9	7,540	7 9	7,380	7 9	7,010	7 5	6,290	6 5
1269	5750	5 33			8,340	9	8,160	9 0	8,030	9 0	7,850	9 1	7,530	8 9	7,010	8 1
1323	6000	5 80					8,640	10 5	8,460	10 5	8,300	10 0	8,000	10 0	7,580	9 6
1380	6250	6 30							8,890	11 5	8,760	11 5	8,440	11 5	8,110	11 5
1434	6500	6 81							9,360	13 0	9,190	13 0	8,890	13 0	8,530	13 0
1490	6750	7 31							9,770	14 5	9,640	14 5	9,360	14 5	9,080	14 5
1544	7000	7 89									10,100	16 5	9,820	16 5	9,550	16 5
1650	7500	9 06											10,700	20 0	10,400	20
1760	8000	10 32													11,300	25.
1870	8500	11 63													12,210	29.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
1213	5500	4 88	4,740	4 9												
1269	5750	5 33	6,100	6 8	3,880	4 5										
1323	6000	5 80	6,980	8 7	5,810	7 1										
1380	6250	6 30	7,700	10 5	6,910	8 9										
1434	6500	6 81	8,260	12 5	7,710	11 0	5,150	7 5								
1490	6750	7 34	8,760	14 5	8,350	13 5	6,710	10 5								
1544	7000	7 89	9,260	16 0	8,900	15 5	7,770	12 5								
1650	7500	9 06	10,200	20 0	9,920	20 0	9,240	18	7,850	15						
1760	8000	10 32	11,100	25	10,900	24 5	10,400	23	9,600	21	7,870	17				
1870	8500	11.63	12,000	29	11,800	29	11,300	29	10,800	27	9,880	24 5	8,250	20		
1980	9000	13 05	12,900	35	12,700	35	12,300	35	11,800	34	11,300	32.	10,300	29	8,690	24
2000	9500	14 53	13,800	41	13,600	41	13,100	41.	12,800	41.	12,300	40	11,700	37	10,800	33.
2200	10000	16 20			14,400	48	14,100	48.	13,700	48	13,300	48	12,900	46	12,300	43.

Single Inlet

No. 6½ Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
154	1050	.179	2,220	0 085												
177	1200	233	3,410	0.170												
206	1400	316	4,290	0 295												
236	1600	412	5,130	0 42	4,230	0.37										
265	1800	520	5,900	0 61	5,310	0 61	3,480	0 385								
294	2000	645			6,190	0 87	5,440	0.75								
324	2200	780			7,040	1 15	6,490	1.15	5,480	0 90						
354	2400	930			7,860	1 5	7,330	1 50	6,780	1 35	5,550	1 10				
383	2600	1 09			8,620	1 9	8,160	1 90	7,750	1 85	7,120	1.65	5,730	1 30		
412	2800	1 26					9,000	2 35	8,580	2 35	8,180	2 25	7,400	2 00	6,040	1 60
442	3000	1 45					9,790	2 90	9,410	2 90	9,060	2 90	8,630	2.75	7,910	2 45
472	3200	1 65					10,600	3 55	10,200	3 55	9,910	3 55	9,540	3 5	9,120	3.25
500	3400	1 86							11,100	4 2	10,700	4 2	10,400	4 2	10,100	4 2
530	3600	2 10							11,800	5.	11,500	5 0	11,200	5 1	10,900	5 0
558	3800	2 32									12,400	5 9	12,100	5 9	11,800	5 9
590	4000	2 58									13,100	6 9	12,900	6 9	12,600	6 9
619	4200	2 85											13,700	8 0	13,400	8 0
648	4400	3 13											14,400	9 2	14,200	9 2
677	4600	3 41													15,000	10 5
707	4800	3 70													15,800	12

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
442	3000	1 45	6,590	2 00												
472	3200	1 65	8,410	2 95												
500	3400	1 86	9,620	3.90	7,870	3 05										
530	3600	2 10	10,600	4 95	9,560	4 25	7,180	3 2								
558	3800	2 32	11,500	5 9	10,800	5.5	9,380	4 6								
590	4000	2 58	12,300	6 9	11,700	6 7	10,800	6 0	9,080	4 9						
619	4200	2 85	13 100	8 0	12,600	7 9	12,000	7.5	10,900	6 6	8,790	5 3				
648	4400	3 13	14,000	9 2	13,500	9 2	13,000	9 0	12,200	8 3	11,000	7 2				
677	4600	3 41	14,800	10 5	14,400	10 5	13,900	10 5	13,400	10.0	12,400	9 1	8,290	6 0		
707	4800	3 70	15,600	12 0	15,100	12 0	14,700	12 0	14,300	11 5	13,600	11.0	11,100	8 6		
736	5000	4 05	16,400	13 5	15,900	13 5	15,500	13 5	15,100	13 5	14,500	13 0	12,900	11	8,430	7 3
774	5250	4 44			17,000	16 0	16,600	16 0	16,100	16 0	15,700	15 5	14,500	14	12,100	11 0
810	5500	4 88			17,900	18 0	17,600	18 0	17,100	18 0	16,700	18 0	15,900	17.	14,300	15 0
847	5750	5 33			18,900	20 5	18,500	20 5	18,200	20 5	17,800	20 5	17,100	20.	15,900	18 5
885	6000	5 80					19,600	23	19,200	23	18,800	23	18,100	23,	17,200	22.
920	6250	6 30							20,200	26.	19,900	26	19,200	26.	18,400	26
957	6500	6 81							21,200	30	20,800	30	20,200	30.	19,600	29.
995	6750	7 34							22,200	33	21,900	33	21,200	33.	20,600	33.
1030	7000	7 89									22,800	37.	22,300	37	21,700	37.
1098	7500	9 06											24,300	46	23,700	46.
1170	8000	10 32													25,700	56.
1244	8500	11 63													27,700	66.

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
810	5500	4 88	10,800	11 0												
847	5750	5 33	13,900	15.5	8,790	10.										
885	6000	5 80	15,800	19.5	13,200	16.										
920	6250	6 30	17,500	24	15,700	20.										
957	6500	6.81	18,800	28.	17,500	25	11,700	17 0								
995	6750	7 34	19,900	32	18,900	30.	15,200	23 5								
030	7000	7 89	21,000	37	20,200	35.	17,600	28								
098	7500	9 06	23,100	46.	22,500	45.	21,000	41.	17,800	34						
170	8000	10.32	25,100	56.	24,700	56.	23,500	52.	21,800	48.	18,100	39.				
244	8500	11 63	27,200	66.	26,700	66.	25,700	66	24,500	62.	22,400	56.	18,700	46.		
318	9000	13 05	29,200	80	28,700	80	27,900	80.	26,700	78.	25,500	72.	23,400	66.	19,700	54.
390	9500	14.53	31,200	92.	30,800	92.	29,800	92.	29,000	92.	28,000	90.	26,600	84.	24,500	76.
463	10000	16 20			32,800	110	31,900	110	31,100	110	30,100	110	29,200	105	28,000	98.

Single Inlet **Single Width**

No. 7 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
141	1050	179	2,730	0 10												
150	1200	233	4,150	0 21												
186	1400	316	5,230	0 36												
212	1600	412	6,250	0 51	5,150	0.455										
239	1800	520	7,200	0 74	6,480	0 74	4,230	0.47								
265	2000	645			7,550	1 05	6,630	0 92								
292	2200	780			8,560	1 4	7,810	1.40	6,680	1 10						
318	2400	930			9,580	1 8	7,910	1 80	8,260	1 65	6 760	1 35				
345	2600	1 09			10,500	2 3	9,950	2 30	9,450	2 25	8,670	2 05	7,000	1 60		
371	2800	1 26					11,000	2 90	10,500	2 90	9,980	2 75	9,130	2 45	7,360	1 95
398	3000	1 45					11,900	3 55	11,500	3 55	11,080	3 50	10,500	3 35	9,640	3 0
424	3200	1 65					12,900	4 35	12,500	4 35	12,100	4 35	11,600	4 25	11,100	4 0
451	3400	1 86							13,500	5 1	13,100	5 1	12,700	5.1	12,300	5 1
478	3600	2 10							14,400	6 2	14,000	6 2	13,700	6.2	13,300	6 1
504	3800	2 32									15,000	7 4	14,700	7.4	14,300	7 4
530	4000	2 58									16,000	8 4	15,700	8 4	15,300	8 4
557	4200	2 85											16,700	9 7	16,300	9 7
584	4400	3 13											17,600	11	17,300	11 0
610	4600	3 41													18,300	13 0
637	4800	3 70													19,300	14 5

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
398	3000	1 45	8,030	2 45												
424	3200	1 65	10,300	3 60												
451	3400	1 86	11,700	4 75	9,600	3.75										
478	3600	2 10	13,000	6 0	11,000	5 2	8,750	3 9								
504	3800	2 32	14,000	7 1	13,200	6 6	11,400	5 6								
530	4000	2 58	14,900	8 4	14,300	8 2	13,200	7 3	11,100	6 0						
557	4200	2 85	16,000	9.7	15,400	9 6	14,600	9 2	13,300	8 1	10,700	6 4				
584	4400	3 13	17,100	11 0	16,400	11.0	15,800	11 0	14,900	10 0	13,400	8 8				
610	4600	3 41	18,100	13 0	17,500	13 0	16,900	12 5	16,300	12 0	15,100	11.0	10,100	7 3		
637	4800	3 70	19,000	14 5	18,400	14 5	17,900	14 5	17,400	14 0	16,500	13.5	13,500	10 5		
663	5000	4 05	20,000	16 5	19,400	16 5	19,000	16 5	18,400	16.5	17,900	16	15,700	13 5	10,300	8 9
697	5250	4 44			20,700	19 5	20,200	19 5	19,700	19 5	19,100	19	17,700	17 0	14,700	13.5
730	5500	4 88			21,800	22	21,400	22	20,900	22	20,400	22	19,400	20 5	17,400	18 0
763	5750	5 33			23,000	25	22,600	25	22,200	25	21,700	25	20,800	24 5	19,400	22 5
796	6000	5 80					24,000	28	23,400	28	23,000	28	22,100	28	21,000	27
829	6250	6 30							24,600	32	24,200	32	23,400	32	22,400	31
862	6500	6 81							25,900	36	25,400	36	24,600	36	23,800	36
895	6750	7 34							27,000	41	26,600	41	25,900	41	25,100	41
928	7000	7 89									27,800	45	27,200	45	26,400	45
995	7500	9 06											29,000	56	28,800	56
1060	8000	10 32													31,300	66
1125	8500	11 63													33,800	80

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
730	5500	4 88	13,100	13 5												
763	5750	5 33	16,900	19	10,700	12 5										
796	6000	5 80	19,300	24	16,100	19 5										
829	6250	6 30	21,300	29	19,100	24 5										
862	6500	6 81	22,800	35	21,400	31	14,200	21								
895	6750	7 34	24,200	39	23,000	37	18,600	28								
928	7000	7 89	25,600	45	24,600	43	21,500	35								
995	7500	9 06	28,200	56	27,400	56	25,600	50	21,700	41						
1060	8000	10 32	30,600	66	30,100	68	28,700	66	26,500	58	22,000	47				
1125	8500	11 63	33,100	80	32,500	80	31,300	80	29,800	76	27,300	68	22,800	56		
1192	9000	13 05	35,500	96	35,000	96	34,000	96	32,500	94	31,100	88	28,600	80	24,000	66
1200	9500	14.53	38,000	115	37,500	115	36,300	115	35,300	115	34,100	110	32,400	100	29,800	92
1326	10000	16.20			39,800	135	38,900	135	37,900	135	36,700	130	35,600	125	34,000	120

Single Inlet **Single Width**

No. 8 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
116	1050	179	3,960	0.150												
133	1200	233	6,030	0.305												
155	1400	316	7,580	0.52												
177	1600	412	9,050	0.74	7,470	0.66										
199	1800	520	10,400	1.1	9,390	1.10	6,140	0.68								
221	2000	.645			10,900	1.55	9,610	1.35								
243	2200	780			12,400	2.05	11,500	2.00	9,680	1.60						
265	2400	930			13,900	2.60	12,900	2.60	12,000	2.10	9,790	1.90				
287	2600	1.09			15,200	3.35	14,400	3.35	13,700	3.25	12,600	2.95	10,100	2.35		
300	2800	1.26					15,900	4.15	15,200	4.15	14,500	4.0	13,200	3.55	10,700	2.8
332	3000	1.45					17,300	5.1	16,600	5.1	16,000	5.1	15,200	4.85	14,000	4.3
354	3200	1.65					18,700	6.3	18,000	6.3	17,500	6.3	16,900	6.1	16,100	5.8
376	3400	1.86							19,500	7.4	18,900	7.4	18,300	7.4	17,800	7.4
398	3600	2.10							20,500	8.9	20,300	8.9	19,800	8.9	19,300	8.9
420	3800	2.32									21,800	10.5	21,400	10.5	20,800	10.5
412	4000	2.58									23,200	12	22,800	12.0	22,200	12.0
464	4200	2.85											24,200	14.0	23,700	14.0
486	4400	3.13											25,500	16.5	25,100	16.5
508	4600	3.41													26,500	18.5
530	4800	3.70													28,000	21

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
332	3000	1.45	11,700	3.55												
354	3200	1.65	14,900	5.2												
376	3400	1.86	17,000	6.9	13,900	5.4										
398	3600	2.10	18,800	8.7	16,900	7.5	12,700	5.6								
420	3800	2.32	20,300	10.5	19,100	9.6	16,600	8.1								
442	4000	2.58	21,700	12.0	20,700	12.0	19,100	10.5	16,000	8.7						
464	4200	2.85	23,200	14.0	22,300	14.0	21,200	13.5	19,300	11.5	15,500	9.3				
486	4400	3.13	24,800	16.5	23,800	16.5	22,900	16.0	21,600	14.5	19,400	13				
508	4600	3.41	26,200	18.5	25,400	18.5	24,500	18.5	23,600	17.5	22,000	16	14,600	10.5		
530	4800	3.70	27,500	21	26,700	21	26,000	21	25,200	20.5	24,000	19	19,500	15.0		
552	5000	4.05	28,900	24	28,200	24	27,500	24	26,600	24	25,600	23	22,700	19.5	14,900	13
580	5250	4.44			30,000	28	29,300	28	28,400	28	27,700	27	25,600	24.5	21,400	20
608	5500	4.88			31,600	32	31,000	32	30,200	32	29,600	32	28,100	30	25,200	26
636	5750	5.33			33,400	36	32,800	36	32,200	36	31,500	36	30,200	36	28,100	33
663	6000	5.80					34,500	41	33,900	41	33,300	41	32,000	41	30,400	38
691	6250	6.30							35,600	46	35,100	46	33,800	46	32,500	45
718	6500	6.81							37,500	52	36,800	52	35,600	52	34,600	52
740	6750	7.34							39,200	58	38,600	58	37,500	58	36,400	58
774	7000	7.89									40,300	66	39,400	66	38,300	66
830	7500	9.06											42,900	80	41,700	[illegible]
885	8000	10.32													45,400	[illegible]
938	8500	11.63													49,000	115

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
608	5500	4.88	19,000	19.5												
636	5750	5.33	24,500	27	15,500	18										
663	6000	5.80	27,900	35	23,300	28										
691	6250	6.30	30,900	42	27,700	35										
718	6500	6.81	33,100	50	30,900	44	20,600	30								
726	6750	7.34	35,100	58	33,400	54	26,900	41								
774	7000	7.89	37,100	64	35,700	62	31,200	50								
830	7500	9.06	40,800	80	39,800	80	37,000	72	31,500	60						
885	8000	10.32	44,400	98	43,600	98	41,500	92	38,400	86	32,000	68				
938	8500	11.63	48,000	115	47,100	115	45,400	115	43,200	110	30,600	98	33,100	80		
996	9000	13.05	51,500	140	50,700	140	49,200	140	47,100	135	45,100	130	41,400	115	34,800	96
1050	9500	14.53	55,100	155	54,300	165	52,600	165	51,100	165	49,400	160	47,000	150	43,200	135
1105	10000	16.20			57,800	190	56,400	190	54,900	190	53,200	190	51,500	185	49,300	170

Single Inlet

No. 9 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
99	1050	179	5,350	0 20												
111	1200	233	8,150	0 41												
133	1400	316	10,300	0 71												
152	1600	412	12,300	1 00	10,100	0 89										
171	1800	520	14,100	1 45	12,700	1 45	8,320	0 92								
190	2000	645			14,800	2 10	13,000	1 80								
208	2200	780			16,800	2 75	15,500	2 70	13,100	2 15						
228	2400	930			18,800	3 55	17,500	3 55	16,200	3 25	13,300	2 6				
246	2600	1 09			20,600	4 55	19,500	4 55	18,500	4 4	17,000	4 0	13,700	3 15		
265	2800	1 26					21,500	5 6	20,500	5 6	19,600	5 4	17,900	4 8	14,400	3 8
284	3000	1 45					23,400	7 0	22,500	7 0	21,700	6 9	20,600	6 6	18,900	5 9
303	3200	1 65					25,300	8 5	21,400	8 5	23,700	8 5	22,800	8 3	21,800	7 8
322	3400	1 86							26,400	10	25,600	10 0	24,800	10 0	24,200	10 0
341	3600	2 10							28,300	12	27,500	12 0	26,800	12 0	26,100	12 0
360	3800	2 32									29,500	14 5	28,900	14 5	28,100	14 5
379	4000	2 58									31,300	16 5	30,800	16 5	30,000	16 5
398	4200	2 85											32,700	19	32,000	19
417	4400	3 13											34,500	22	33,900	22
436	4600	3 41													35,900	25
455	4800	3 70													37,800	29

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
284	3000	1 45	15,800	4 8												
303	3200	1 65	20,100	7 1												
322	3400	1 86	23,000	9 3	18,800	7 3										
341	3600	2 10	25,400	12 0	22,900	10	17,100	7 6								
360	3800	2 32	27,500	14 0	25,800	13	22,400	11 0								
379	4000	2 58	29,300	16 5	28,000	16	25,800	14 5	21,700	11 7						
398	4200	2 85	31,400	19	30,200	19	28,600	18 0	26,100	16	21,000	12 5				
417	4400	3 13	33,500	22	32,200	22	31,000	21 5	29,200	20	26,200	17 5				
436	4600	3 41	35,400	25	34,300	25	33,100	25	31,900	24	29,700	22	19,800	14 5		
455	4800	3 70	37,200	29	36,200	29	35,100	29	34,100	28	32,400	26	26,400	20 5		
474	5000	4 05	39,100	33	38,100	33	37,200	33	36,000	32	34,700	31	30,700	26	20,200	17 5
498	5250	4 44			40,500	38	39,600	38	38,500	38	37,500	37	34,700	33	28,900	27
522	5500	4 88			42,800	43	42,000	43	40,900	43	40,000	43	38,000	41	34,100	35
545	5750	5 33			45,200	49	44,300	49	43,500	49	42,600	49	40,800	48	38,000	44
569	6000	5 80					46,800	56	45,800	56	45,000	56	43,300	56	41,100	52
593	6250	6 30							48,200	62	47,500	62	45,800	62	44,000	62
616	6500	6 81							50,800	70	49,800	70	48,200	70	46,800	70
640	6750	7 34							53,000	80	52,300	80	50,800	80	49,300	80
663	7000	7 89									54,600	90	53,200	90	51,800	90
710	7500	9 06											58,000	110	56,500	110
758	8000	10 32													61,400	135
806	8500	11 63													66,300	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
522	5500	4 88	25,700	27												
545	5750	5 33	33,100	37	21,000	24										
569	6000	5 80	37,800	47	31,500	39										
593	6250	6 30	41,800	56	37,500	48										
616	6500	6 81	44,800	68	41,800	60	27,900	41								
640	6750	7 34	47,500	78	45,300	72	36,400	56								
663	7000	7 89	50,300	88	48,300	84	42,100	68								
710	7500	9 06	55,200	110	53,800	108	50,100	98	42,600	82						
758	8000	10 32	60,000	135	59,000	135	56,200	125	52,000	115	43,200	94				
806	8500	11 63	65,000	160	63,700	160	61,400	155	58,500	150	53,600	135	44,700	110		
852	9000	13 05	69,800	190	68,600	190	66,300	190	63,700	185	61,000	175	56,000	155	47,100	130
900	9500	14 53	74,600	220	73,500	220	71,200	220	69,200	220	66,800	215	63,600	200	58,500	180
950	10000	16 20			78,200	260	76,300	260	74,300	260	72,000	260	69,800	250	66,800	235

Single Inlet **Single Width**

No. 10 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
87	1050	.179	7,020	0.26												
100	1200	.233	10,700	0.55												
116	1400	.316	13,500	0.93												
133	1600	.412	16,100	1.3	13,300	1.15										
149	1800	.520	18,500	1.9	16,700	1.90	10,900	1.20								
166	2000	.645			19,400	2.75	17,100	2.35								
183	2200	.780			22,000	3.60	20,300	3.55	17,200	2.80						
199	2400	.930			24,700	4.65	23,000	4.65	21,300	4.30	17,400	3.4				
216	2600	1.09			27,000	6	25,600	6.0	24,300	5.8	22,300	5.2	18,000	4.15		
232	2800	1.26					28,200	7.4	26,900	7.4	25,700	7.1	23,500	6.3	18,900	5.0
249	3000	1.45					30,700	9.1	29,500	9.1	28,400	9.1	27,000	8.6	24,800	7.7
266	3200	1.65					33,200	11	32,000	11	31,100	11.0	29,900	11.0	28,600	10.0
282	3400	1.86							34,600	13	33,600	13.0	32,600	13.0	31,700	13.0
299	3600	2.10							37,000	16	36,100	16.0	35,200	16.0	34,200	16.0
315	3800	2.32									38,700	19.0	37,900	19.0	36,900	19.0
332	4000	2.58									41,100	21.5	40,400	21.5	39,400	21.5
349	4200	2.85											42,900	25	42,000	25
365	4400	3.13											49,600	29	44,500	29
382	4600	3.41													47,100	33
399	4800	3.70													49,600	38

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
249	3000	1.45	20,700	6.3												
266	3200	1.65	26,400	9.3												
282	3400	1.86	30,200	12.0	24,700	9.6										
299	3600	2.10	33,300	15.5	30,000	13.5	22,500	10.0								
315	3800	2.32	36,000	18.5	33,800	17.0	29,400	14.5								
332	4000	2.58	38,500	21.5	36,700	21.0	33,900	19.0	28,500	15.5						
349	4200	2.85	41,200	25	39,600	24.5	37,500	23.5	34,200	21	27,600	16.5				
365	4400	3.13	43,900	29	42,300	29	40,700	28	38,300	26	34,400	23				
382	4600	3.41	46,500	33	45,000	33	43,400	33	41,900	32	39,000	29	26,000	19		
399	4800	3.70	48,800	38	47,400	38	46,000	38	44,800	37	42,500	34	34,600	27		
415	5000	4.05	51,300	43	50,000	43	48,700	43	47,200	43	45,500	41	40,300	35	26,400	23
436	5250	4.44			53,100	49	52,000	49	50,500	49	49,200	48	45,600	43	38,000	35
456	5500	4.88			56,100	56	55,100	56	53,700	56	52,500	56	49,900	54	44,800	46
477	5750	5.33			59,300	64	58,200	64	57,100	64	55,900	64	53,600	64	49,900	58
498	6000	5.80					61,500	72	60,100	72	59,100	72	56,800	72	53,900	68
519	6250	6.30							63,300	82	62,300	82	60,000	82	57,800	80
540	6500	6.81							66,600	92	65,400	92	63,200	92	61,400	92
560	6750	7.34							69,500	105	68,600	105	66,600	105	64,600	105
581	7000	7.89									71,600	115	69,800	115	68,000	115
622	7500	9.06											76,100	145	74,100	145
664	8000	10.32													80,500	175
705	8500	11.63													87,000	210

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
456	5500	4.88	33,800	35												
477	5750	5.33	43,500	49	27,500	32										
498	6000	5.80	49,600	62	41,300	50										
519	6250	6.30	54,800	74	49,200	62										
540	6500	6.81	58,800	90	54,900	80	36,600	54								
560	6750	7.34	62,400	100	59,400	94	47,800	74								
581	7000	7.89	65,900	115	63,400	110	55,300	90								
622	7500	9.06	72,500	145	70,600	140	65,800	130	55,900	105						
664	8000	10.32	78,800	175	77,500	175	73,600	165	68,300	150	56,700	120				
705	8500	11.63	85,300	210	83,600	210	80,600	205	76,800	195	70,400	175	58,700	145		
746	9000	13.05	91,500	250	90,000	250	87,500	250	83,600	240	80,000	225	73,500	205	61,800	170
788	9500	14.53	97,800	290	96,500	290	93,500	290	90,800	290	87,600	285	83,500	260	76,800	235
830	10000	16.20			103,000	340	100,000	340	97,500	340	94,500	340	91,600	325	87,500	305

Single Inlet

No. 11 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
77	1050	179	8,730	33												
88	1200	233	13,400	69												
103	1400	316	16,900	1.15												
118	1600	412	20,200	1.65	16,700	1.45										
132	1800	520	23,300	2.1	20,900	2.40	13,700	1.50								
147	2000	645			24,400	3.45	21,400	3.00								
162	2200	780			27,700	4.55	25,600	4.45	21,600	3.55						
177	2400	930			31,000	5.9	28,800	5.9	26,700	5.4	21,900	4.3				
191	2600	1.09			34,000	7.5	32,200	7.5	30,500	7.3	28,000	6.6	22,600	5.2		
206	2800	1.26					35,500	9.3	33,800	9.3	32,200	8.9	29,600	7.9	23,800	6.3
221	3000	1.45					38,600	11.5	37,200	11.5	35,700	11.5	34,000	11.0	31,200	9.6
235	3200	1.65					41,700	14	40,300	14.0	39,100	14.0	37,600	13.5	36,000	13.0
250	3400	1.86							43,500	16.5	42,200	16.5	40,900	16.5	39,800	16.5
265	3600	2.10							46,500	20	45,300	20	44,200	20	43,100	20
279	3800	2.32									48,700	24	47,700	24	46,400	24
294	4000	2.58									51,700	27	50,800	27	49,500	27
309	4200	2.85											54,000	31	52,800	31
324	4400	3.13											56,900	36	55,900	36
338	4600	3.41													59,200	42
353	4800	3.70													62,400	47

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
221	3000	1.45	26,000	7.9												
235	3200	1.65	33,200	11.5												
250	3400	1.86	38,000	15.5	31,000	12.0										
265	3600	2.10	41,900	19.5	37,700	17.0	28,300	12.5								
279	3800	2.32	45,300	23	42,600	21.5	37,000	18.0								
294	4000	2.58	48,300	27	46,200	27	42,500	23.5	35,800	19.5						
309	4200	2.85	51,800	31	49,800	31	47,200	30	43,100	26	34,700	21				
324	4400	3.13	55,300	36	53,200	36	51,200	35	48,200	33	43,200	29				
338	4600	3.41	58,500	42	56,600	42	54,600	41	52,600	39	49,000	36	32,700	23.5		
353	4800	3.70	61,300	47	59,600	47	58,000	47	56,300	46	53,500	43	43,500	34		
368	5000	4.05	64,500	54	62,900	54	61,200	54	59,400	54	57,700	52	50,700	41	33,200	29
386	5250	4.44			66,800	62	65,300	62	63,600	62	62,000	60	57,300	54	47,700	44
404	5500	4.88			70,600	70	69,300	70	67,500	70	66,000	70	62,700	66	56,300	58
423	5750	5.33			74,500	82	73,100	82	71,700	82	70,300	82	67,400	80	62,700	72
441	6000	5.80							75,700	92	74,300	92	71,500	92	67,800	86
459	6250	6.30							79,500	105	78,400	105	75,500	100	72,700	100
478	6500	6.81							83,700	115	82,200	115	79,500	115	77,000	115
496	6750	7.34							87,500	130	86,200	130	83,700	130	81,300	130
514	7000	7.89									90,000	145	87,800	145	85,500	145
550	7500	9.06											95,700	180	93,200	180
587	8000	10.32													101,000	220
624	8500	11.63													109,000	260

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
404	5500	4.88	42,400	44												
423	5750	5.33	54,600	62	34,600	40										
441	6000	5.80	62,400	78	52,000	64										
459	6250	6.30	68,900	94	61,900	80										
478	6500	6.81	74,000	110	69,000	98	46,000	68								
496	6750	7.34	78,400	130	74,700	120	60,000	92								
514	7000	7.89	83,000	145	79,800	140	69,600	110								
550	7500	9.06	91,100	180	88,800	180	82,800	160	70,300	135						
587	8000	10.32	99,000	220	97,300	220	92,700	210	85,800	190	71,200	155				
624	8500	11.63	107,000	260	105,000	260	101,000	260	96,500	245	88,500	220	73,800	180		
660	9000	13.05	115,000	310	113,000	310	110,000	310	105,000	305	101,000	285	92,500	255	77,700	195
697	9500	14.53	123,000	365	121,000	365	117,000	365	114,000	365	110,000	365	105,000	330	96,500	300
733	10000	16.20			129,000	430	126,000	430	123,000	430	119,000	425	115,000	410	110,000	385

Single Inlet | **Single Width**

No. 12 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
70	1050	.179	10,900	0.41												
80	1200	.233	16,600	0.84												
93	1400	.316	20,900	1.45												
106	1600	.412	25,000	2.05	20,600	1.80										
120	1800	.520	28,800	3.9	25,900	3.00	17,000	1.90								
133	2000	.645			30,200	4.25	26,500	3.65								
146	2200	.780			34,200	5.6	31,600	5.5	26,700	4.4						
159	2400	.930			38,400	7.2	35,700	7.2	33,000	6.6	27,000	5.3				
173	2600	1.09			42,000	9.2	39,800	9.2	37,800	9.0	34,700	8.1	27,900	6.4		
186	2800	1.26					43,800	11.5	41,800	11.5	39,000	11.0	36,500	9.8	29,400	7.8
199	3000	1.45					47,700	14.0	45,900	14.0	44,100	14.0	42,000	13.5	38,500	12.0
212	3200	1.65					51,600	17.5	49,800	17.5	48,300	17.5	46,500	17.0	44,500	16.0
226	3400	1.86							53,800	20.5	52,200	20.5	50,500	20.5	49,200	20.5
230	3600	2.10							57,600	24.5	56,200	24.5	54,600	24.5	53,200	24.5
252	3800	2.32									60,100	30	59,000	30	57,300	30
265	4000	2.58									63,900	34	62,800	34	61,200	34
279	4200	2.85											66,700	39	65,300	39
290	4400	3.13											70,400	45	69,100	45
305	4600	3.41													73,200	52
318	4800	3.70													77,100	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
199	3000	1.45	32,100	9.8												
212	3200	1.65	41,000	14.5												
226	3400	1.86	46,900	19	38,400	15										
239	3600	2.10	51,800	24	46,600	21	35,000	15.5								
252	3800	2.32	56,000	29	52,600	27	45,600	22.5								
265	4000	2.58	59,800	34	57,100	33	52,600	29	44,300	24						
279	4200	2.85	64,000	39	61,500	38	58,300	37	53,200	32	42,800	26				
299	4400	3.13	68,300	45	65,700	45	63,200	44	59,500	40	53,400	35				
305	4600	3.41	72,200	52	70,000	52	67,500	50	65,000	49	60,500	44	40,400	29		
318	4800	3.70	75,800	58	73,600	58	71,500	58	69,500	56	66,100	54	53,800	42		
332	5000	4.05	79,800	66	77,700	66	75,700	66	73,500	66	70,800	64	62,600	54	41,100	36
348	5250	4.44			82,600	76	80,800	76	78,500	76	76,500	76	70,800	68	58,900	54
365	5500	4.88			87,200	88	85,600	88	83,400	88	81,600	88	77,500	82	69,500	72
381	5750	5.33			92,200	100	90,400	100	88,700	100	86,900	100	83,200	98	77,500	90
398	6000	5.80					95,500	115	93,400	115	91,800	115	88,300	115	83,800	105
414	6250	6.30							98,400	125	96,900	125	93,300	125	89,800	125
431	6500	6.81							104,000	145	102,000	145	98,400	145	95,400	145
448	6750	7.34							108,000	160	107,000	160	104,000	160	100,000	160
464	7000	7.89									111,000	180	109,000	180	106,000	180
497	7500	9.06											118,000	220	115,000	220
531	8000	10.32													125,000	270
564	8500	11.63													135,000	325

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
365	5500	4.88	52,400	54												
381	5750	5.33	67,500	76	42,800	50										
398	6000	5.80	77,100	96	64,300	78										
414	6250	6.30	85,100	115	76,500	98										
431	6500	6.81	91,400	140	85,300	120	56,900	82								
448	6750	7.34	96,900	160	92,300	145	74,200	115								
464	7000	7.89	103,000	180	98,500	170	85,900	140								
497	7500	9.06	113,000	220	110,000	220	102,000	200	86,900	165						
531	8000	10.32	122,000	270	120,000	270	114,000	255	106,000	235	88,100	190				
564	8500	11.63	133,000	325	130,000	325	125,000	320	119,000	305	109,000	270	91,200	225		
597	9000	13.05	142,000	385	140,000	385	136,000	385	130,000	375	124,000	355	114,000	320	96,000	265
630	9500	14.53	152,000	450	150,000	450	145,000	450	141,000	450	136,000	440	130,000	410	119,000	370
664	10000	16.20			160,000	530	156,000	530	152,000	530	147,000	525	142,000	510	136,000	475

Single Inlet

No. 13 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
63	1050	179	13,200	0 495												
72	1200	233	20,200	1 00												
84	1400	316	25,400	1 76												
97	1600	412	30,300	2 48	25,000	2 2										
109	1800	520	34,900	3 6	31,400	3 6	20,600	2 30								
121	2000	645			36,600	5 2	32,200	4 45								
133	2200	780			41,500	6 8	38,400	6 7	32,400	5 3						
145	2400	930			46,500	8 8	43,300	8 8	40,100	8 1	32,800	6 4				
157	2600	1 09			51,000	11	48,200	11	45,800	11	42,100	9 9	33,900	7.8		
169	2800	1 26					53,200	14	50,700	14	48,300	13 5	44,300	12 0	35,700	9.5
181	3000	1 45					57,900	17	55,700	17	53,600	17	51,000	16 0	46,800	14 5
193	3200	1 65					62,600	21	60,400	21	58,600	21	56,500	20 5	54,000	19 5
205	3400	1 86							65,300	25	63,300	25	61,400	25	59,800	25
217	3600	2 10							70,000	30	68,000	30	66,300	30	64,600	30
229	3800	2 32									73,000	35	71,500	35	69,600	35
241	4000	2 58									77,500	41	76,100	41	74,300	41
253	4200	2 85											81,000	47	79,200	47
265	4400	3 13											85,500	54	84,000	54
277	4600	3 41													88,900	62
289	4800	3 70													93,600	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
181	3000	1 45	39,000	12 0												
193	3200	1 65	49,800	17 5												
205	3400	1 86	56,800	23	46,600	18										
217	3600	2 10	62,800	29	56,500	25	42,300	19								
229	3800	2 32	68,000	35	63,800	32	55,400	27								
241	4000	2 58	72,500	41	69,300	40	63,800	36	53,700	29						
253	4200	2 85	77,700	47	74,700	47	70,800	45	64,600	39	52,000	31				
265	4400	3 13	83,000	54	79,600	54	76,700	54	72,200	49	64,800	43				
277	4600	3 41	87,600	62	84,800	62	82,000	62	78,900	58	73,500	54	49,000	36		
289	4800	3 70	92,000	70	89,500	70	86,900	70	84,400	70	80,100	64	65,300	50		
301	5000	4 05	96,800	80	94,300	80	92,000	80	89,100	80	86,600	78	76,000	66	49,800	43
316	5250	4 44			100,000	94	98,000	94	95,200	94	92,800	92	85,800	82	71,500	66
332	5500	4 88			106,000	105	104,000	105	101,000	105	99,000	105	94,000	100	84,500	88
347	5750	5 33			112,000	120	110,000	120	108,000	120	105,000	120	101,000	120	94,000	110
362	6000	5 80							113,000	135	112,000	135	107,000	135	102,000	130
377	6250	6 30							138,000	155	118,000	155	113,000	155	109,000	150
392	6500	6 81							126,000	175	123,000	175	119,000	175	116,000	175
407	6750	7 34							131,000	195	129,000	195	126,000	195	122,000	195
422	7000	7 89									135.000	220	132,000	220	128,000	220
452	7500	9 06											143,000	270	140,000	270
482	8000	10 32													152,000	335
512	8500	11 63													164,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
332	5500	4 88	63,600	66												
347	5750	5 33	81,900	92	51,900	60										
362	6000	5 80	93,600	115	78,000	96										
377	6250	6 30	103,000	140	92,800	120										
392	6500	6 81	111,000	170	104,000	150	69,000	100								
407	6750	7 34	118,000	190	112,000	180	90,000	140								
422	7000	7 89	124,000	215	120,000	205	104,000	170								
452	7500	9 06	137,000	270	133,000	270	124,000	240	105,000	200						
482	8000	10 32	148,000	335	146,000	330	139,000	315	129,000	285	107,000	230				
512	8500	11 63	161,000	390	158,000	390	152,000	385	145,000	370	133,000	330	110,000	270		
542	9000	13 05	173,000	470	170,000	470	165,000	470	158,000	455	151,000	430	139,000	385	117,000	320
572	9500	14 53	185,000	550	182,000	550	176,000	550	171,000	545	165,000	535	157,000	495	145,000	445
602	10000	16 20			193,000	645	189,000	645	184,000	645	178,000	640	173,000	615	165,000	575

Single Inlet **Single Width**

No. 14 Multivane Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Agains. Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
56	1050	.179	15,800	0.59												
67	1200	.233	24,100	1.20												
78	1400	.316	30,300	2.10												
89	1600	.412	36,200	3.00	29,800	2.65										
100	1800	.520	41,600	4.3	37,500	4.3	24,500	2.7								
111	2000	.645			43,700	6.1	38,400	5.3								
122	2200	.780			49,600	8.1	45,800	8.0	38,700	6.4						
133	2400	.930			55,500	10.5	51,700	10.5	47,900	9.6	39,200	7.7				
144	2600	1.09			60,800	13.5	57,600	13.5	54,600	13	50,200	12.0	40,500	9.3		
155	2800	1.26					63,500	16.5	60,500	16.5	57,800	16.0	52,900	14	42,000	11.5
166	3000	1.45					69,000	20.5	66,500	20.5	64,000	20.5	60,900	19.5	55,800	17.5
177	3200	1.65					74,700	25	72,100	25	70,000	25	67,400	24.5	64,400	23
188	3400	1.86							78,000	30	75,600	30	73,200	30	71,300	30
199	3600	2.10							83,400	36	81,200	36	78,100	36	77,100	36
210	3800	2.32									87,100	43	85,400	43	83,000	43
221	4000	2.58									92,500	49	91,000	49	88,500	49
232	4200	2.85											96,600	56	94,500	56
243	4400	3.13											102,000	66	100,000	66
254	4600	3.41													106,000	74
266	4800	3.70													112,000	84

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
166	3000	1.45	46,500	14												
177	3200	1.65	59,400	21												
188	3400	1.86	68,000	28	55,600	21.5										
199	3600	2.10	75,100	35	67,500	30	50,600	22.5								
210	3800	2.32	81,000	41	76,200	39	66,200	33								
221	4000	2.58	86,500	49	82,700	48	76,200	42	64,100	35						
232	4200	2.85	92,800	56	89,200	56	84,500	54	77,100	47	62,000	37				
243	4400	3.13	99,000	66	95,100	66	91,600	64	86,300	58	77,400	52				
254	4600	3.41	105,000	74	101,000	74	97,800	74	94,200	70	87,700	64	58,500	42		
266	4800	3.70	110,000	84	107,000	84	104,000	84	101,000	82	95,600	76	78,000	60		
277	5000	4.05	116,000	96	113,000	96	110,000	96	106,000	96	102,000	92	90,700	78	59,500	52
290	5250	4.41			120,000	110	117,000	110	114,000	110	111,000	110	102,000	98	85,400	80
304	5500	4.88			126,000	125	124,000	125	121,000	125	118,000	125	112,000	120	101,000	105
318	5750	5.33			134,000	145	131,000	145	129,000	145	126,000	145	121,000	140	112,000	130
332	6000	5.80							135,000	165	133,000	165	128,000	165	121,000	155
346	6250	6.30							142,000	185	140,000	185	135,000	185	130,000	180
359	6500	6.81							150,000	210	147,000	210	142,000	210	138,000	205
373	6750	7.34							157,000	235	154,000	235	150,000	235	146,000	235
387	7000	7.89									161,000	265	157,000	265	153,000	265
414	7500	9.06											171,000	320	167,000	320
442	8000	10.32													181,000	390
470	8500	11.63													196,000	470

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
304	5500	4.88	75,900	78												
318	5750	5.33	97,800	110	62,000	72										
332	6000	5.80	112,000	140	93,000	115										
346	6250	6.30	123,000	170	111,000	140										
359	6500	6.81	132,000	200	124,000	175	82,500	120								
373	6750	7.34	140,000	230	134,000	210	108,000	165								
387	7000	7.89	148,000	260	143,000	250	124,000	200								
414	7500	9.06	163,000	320	159,000	320	148,000	290	126,000	240						
442	8000	10.32	177,000	390	174,000	390	166,000	370	154,000	340	128,000	275				
470	8500	11.63	192,000	470	188,000	470	181,000	460	173,000	440	158,000	395	132,000	320		
497	9000	13.05	206,000	560	203,000	560	197,000	560	188,000	545	180,000	510	165,000	460	139,000	380
525	9500	14.53	220,000	655	217,000	655	210,000	655	204,000	655	197,000	640	188,000	590	173,000	630
553	10000	16.20			231,000	770	225,000	770	220,000	770	213,000	760	208,000	735	197,000	690

Single Inlet

No. 15 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
54	1050	179	18,500	0.69												
62	1200	233	28,200	1.45												
72	1400	316	35,500	2.45												
82	1600	412	42,400	3.45	35,000	3.1										
92	1800	520	48,800	5.1	44,000	5.1	28,800	3.2								
102	2000	645			51,300	7.2	45,100	6.2								
113	2200	780			58,200	9.4	53,700	9.4	45,400	7.5						
123	2400	930			65,200	12.5	60,700	12.5	56,200	11.5	45,900	9.0				
133	2600	1.09			71,400	15.5	67,600	15.5	64,100	15.5	58,800	14.0	47,500	11.0		
143	2800	1.26					74,500	19.5	71,000	19.5	67,800	18.5	62,000	16.5	50,000	13.0
153	3000	1.45					81,100	24	78,000	24	75,000	24	71,400	22.5	65,500	20.5
163	3200	1.65					87,700	29	84,600	29	82,200	29	79,000	29	75,600	27
174	3400	1.86							91,500	35	88,700	35	86,000	35	83,700	35
184	3600	2.10							98,000	42	95,400	42	92,900	42	90,500	42
194	3800	2.32									102,000	50	100,000	50	97,300	50
204	4000	2.58									108,000	58	107,000	58	104,000	58
215	4200	2.85											113,000	66	111,000	66
225	4400	3.13											120,000	76	117,000	76
235	4600	3.41													124,000	88
245	4800	3.70													131,000	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
153	3000	1.45	54,600	16.5												
163	3200	1.65	69,500	24.5												
174	3400	1.86	79,800	32	65,200	25										
184	3600	2.10	88,000	41	79,200	35	59,400	26								
194	3800	2.32	95,100	49	89,500	45	77,600	38								
204	4000	2.58	102,000	58	97,000	56	89,400	50	75,200	41						
215	4200	2.85	109,000	66	105,000	66	99,100	64	90,500	52	72,800	44				
225	4400	3.13	116,000	76	112,000	76	107,000	74	101,000	68	90,700	60				
235	4600	3.41	123,000	88	119,000	88	115,000	86	111,000	84	103,000	76	68,600	50		
245	4800	3.70	129,000	100	125,000	100	122,000	100	118,000	96	112,000	90	91,500	72		
255	5000	4.05	135,000	115	132,000	115	129,000	115	125,000	110	120,000	110	106,000	92	69,900	60
268	5250	4.44			140,000	130	137,000	130	133,000	130	130,000	130	120,000	115	100,000	92
281	5500	4.88			148,000	150	145,000	150	142,000	150	139,000	150	132,000	140	118,000	125
294	5750	5.33			157,000	170	154,000	170	151,000	170	148,000	170	142,000	165	132,000	155
306	6000	5.80							159,000	190	156,000	190	150,000	190	142,000	180
319	6250	6.30							167,000	215	165,000	215	158,000	215	152,000	210
332	6500	6.81							176,000	245	173,000	245	167,000	245	162,000	245
345	6750	7.34							184,000	275	181,000	275	176,000	275	170,000	275
357	7000	7.89									189,000	310	181,000	310	180,000	310
382	7500	9.06											201,000	380	196,000	380
408	8000	10.32													213,000	460
433	8500	11.63													230,000	550

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
281	5500	4.88	89,000	92												
294	5750	5.33	115,000	130	72,800	84										
306	6000	5.80	131,000	165	109,000	135										
319	6250	6.30	145,000	195	130,000	165										
332	6500	6.81	155,000	235	145,000	210	96,600	140								
345	6750	7.34	165,000	270	157,000	250	126,000	195								
357	7000	7.89	174,000	300	167,000	290	146,000	235								
382	7500	9.06	191,000	380	186,000	375	174,000	340	148,000	280						
408	8000	10.32	208,000	460	204,000	460	195,800	435	180,000	400	150,000	320				
433	8500	11.63	225,000	550	221,000	550	213,000	540	202,000	515	186,000	460	155,000	380		
459	9000	13.05	242,000	655	238,000	655	231,000	655	221,000	640	212,000	600	194,000	540	163,000	445
485	9500	14.53	158,000	765	255,000	765	246,000	765	240,000	765	232,000	750	220,000	695	203,000	625
510	10000	16.20			271,000	900	264,000	900	258,000	900	250,000	895	242,000	865	231,000	805

Single Inlet

No. 16 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
50	1050	.179	21,500	0.80												
57	1200	.233	32,600	1.65												
66	1400	.316	41,000	2.85												
76	1600	.412	49,000	4.0	40,400	3.55										
85	1800	.520	56,500	5.8	50,800	5.8	33,200	3.7								
95	2000	.645			59,300	8.3	52,000	7.2								
104	2200	.780			67,300	11.0	62,000	11	52,500	8.6						
113	2400	.930			75,300	14.0	70,100	14	64,900	13.0	53,000	10.5				
123	2600	1.09			82,500	18.5	78,100	18.5	74,900	17.5	68,100	16.0	54,900	12.5		
133	2800	1.26					86,100	22.5	82,100	22.5	78,300	21.5	71,700	19	57,800	15.5
142	3000	1.45					93,600	28	90,100	28	86,700	28	82,500	26	75,700	23.5
152	3200	1.65					101,000	34	97,700	34	94,900	34	91,300	33	87,300	31
161	3400	1.86							106,000	40	103,000	40	99,300	40	96,600	40
170	3600	2.10							113,000	48	110,000	48	107,000	48	105,000	48
180	3800	2.32									118,000	58	116,000	58	113,000	58
189	4000	2.58									125,000	66	123,000	66	120,000	66
199	4200	2.85											131,000	76	128,000	76
208	4400	3.13											138,000	88	136,000	88
218	4600	3.41													144,000	100
227	4800	3.70													151,000	115

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
142	3000	1.45	63,100	19												
152	3200	1.65	80,500	28												
161	3400	1.86	92,100	37	75,300	29										
170	3600	2.10	102,000	47	91,500	41	68,600	31								
180	3800	2.32	110,000	56	103,000	52	89,600	44								
189	4000	2.58	117,000	66	112,000	64	103,000	58	86,800	47						
199	4200	2.85	126,000	76	121,000	76	115,000	72	105,000	64	84,100	50				
208	4400	3.13	134,000	88	129,000	88	124,000	86	117,000	80	105,000	70				
218	4600	3.41	142,000	100	137,000	100	133,000	100	128,000	96	119,000	88	79,300	58		
227	4800	3.70	149,000	115	145,000	115	141,000	115	137,000	110	130,000	105	106,000	82		
237	5000	4.05	157,000	130	153,000	130	149,000	130	144,000	130	139,000	125	123,000	105	80,700	70
248	5250	4.44			162,000	150	159,000	150	154,000	150	150,000	145	139,000	130	116,000	105
260	5500	4.88			172,000	175	168,000	175	164,000	170	160,000	170	152,000	165	137,000	140
272	5750	5.33			181,000	195	177,000	195	174,000	195	171,000	195	164,000	195	152,000	175
284	6000	5.80							184,000	220	180,000	220	174,000	220	165,000	210
296	6250	6.30							193,000	250	190,000	250	183,000	250	176,000	245
308	6500	6.81							203,000	280	200,000	280	193,000	280	187,000	280
319	6750	7.34							212,000	320	209,000	320	203,000	320	197,000	320
331	7000	7.89									219,000	360	213,000	360	207,000	360
355	7500	9.06											232,000	435	226,000	435
378	8000	10.32													246,000	540
402	8500	11.63													265,000	635

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
260	5500	4.88	103,000	105												
272	5750	5.33	133,000	150	84,000	98										
284	6000	5.80	151,000	190	126,000	155										
296	6250	6.30	167,000	225	150,000	195										
308	6500	6.81	180,000	270	168,000	240	112,000	165								
319	6750	7.34	190,000	310	181,000	290	146,000	225								
331	7000	7.89	201,000	350	194,000	335	169,000	270								
355	7500	9.06	221,000	435	216,000	430	201,000	390	171,000	325						
378	8000	10.32	240,000	540	236,000	530	225,000	500	208,000	460	173,000	370				
402	8500	11.63	260,000	635	255,000	635	246,000	625	231,000	595	214,000	535	179,000	440		
426	9000	13.05	280,000	760	275,000	760	277,000	760	255,000	740	244,000	695	224,000	625	189,000	515
449	9500	14.53	299,000	885	294,000	885	285,000	885	277,000	885	268,000	865	255,000	800	234,000	720
473	10000	16.20			313,000	1040	306,000	1040	298,000	1040	288,000	1030	280,000	1000	268,000	935

Single Inlet **Single Width**

No. 17 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
46	1050	.179	24,700	0.92												
53	1200	.233	37,500	1.90												
62	1400	.316	47,200	3.25												
71	1600	.412	56,500	4.6	46,500	4.1										
80	1800	.520	65,000	6.7	58,500	6.7	38,300	4.25								
89	2000	.645			68,100	9.6	59,800	8.3								
98	2200	.780			77,500	12.5	71,500	12.5	60,300	9.9						
106	2400	.930			86,600	16.5	80,600	16.5	74,600	15.0	61,000	12.0				
115	2600	1.09			94,900	21	89,800	21	85,200	20.5	78,300	18.5	63,100	14.5		
124	2800	1.26					99,000	26	94,500	26	90,000	25	82,500	22	66,400	17.5
133	3000	1.45					108,000	32	104,000	32	99,300	32	94,500	30	87,000	27
142	3200	1.65					117,000	39	112,000	39	109,000	39	105,000	38	100,000	36
151	3400	1.86							122,000	46	118,000	46	114,000	46	111,000	46
159	3600	2.10							130,000	56	127,000	56	123,000	56	120,000	56
168	3800	2.32									136,000	66	133,000	66	129,000	66
177	4000	2.58									144,000	76	142,000	76	138,000	76
186	4200	2.85											151,000	88	147,000	88
195	4400	3.13											159,000	100	156,000	100
204	4600	3.41													165,000	115
213	4800	3.70													174,000	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
133	3000	1.45	72,500	22												
142	3200	1.65	92,500	33												
151	3400	1.86	106,000	43	86,600	34										
159	3600	2.10	117,000	54	105,000	47	79,000	35								
168	3800	2.32	126,000	64	119,000	60	103,000	50								
177	4000	2.58	135,000	76	129,000	74	119,000	66	100,000	54						
186	4200	2.85	145,000	88	139,000	86	132,000	82	120,000	72	96,700	58				
195	4400	3.13	154,000	100	148,000	100	143,000	100	135,000	90	121,000	80				
204	4600	3.41	163,000	115	158,000	115	152,000	115	147,000	110	137,000	100	91,200	66		
213	4800	3.70	171,000	130	167,000	130	162,000	130	157,000	130	149,000	120	122,000	94		
221	5000	4.05	180,000	150	175,000	150	171,000	150	166,000	150	160,000	145	141,000	120	92,800	80
232	5250	4.44			187,000	175	182,000	175	177,000	175	173,000	170	160,000	150	133,000	125
244	5500	4.88			197,000	225	194,000	205	188,000	200	184,000	200	175,000	185	157,000	165
255	5750	5.33			208,000	255	204,000	225	200,000	225	196,000	225	188,000	220	175,000	205
266	6000	5.80							211,000	255	207,000	255	199,000	255	189,000	240
277	6250	6.30							222,000	285	219,000	285	211,000	285	203,000	280
288	6500	6.81							234,000	325	230,000	325	222,000	325	215,000	320
299	6750	7.34							244,000	365	241,000	365	234,000	365	227,000	365
310	7000	7.89									252,000	410	245,000	410	239,000	410
332	7500	9.06											267,000	500	260,000	500
354	8000	10.32													283,000	610
376	8500	11.63													305,000	730

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
244	5500	4.88	118,000	120												
255	5750	5.33	152,000	170	96,700	110										
266	6000	5.80	174,000	215	145,000	175										
277	6250	6.30	192,000	260	173,000	220										
288	6500	6.81	206,000	315	193,000	275	129,000	185								
299	6750	7.34	219,000	355	208,000	330	168,000	255								
310	7000	7.89	231,000	405	223,000	385	194,000	315								
332	7500	9.06	254,000	500	248,000	500	231,000	450	196,000	375						
354	8000	10.32	276,000	610	272,000	610	258,000	575	240,000	530	199,000	430				
376	8500	11.63	299,000	730	294,000	730	283,000	720	269,000	685	247,000	615	206,000	505		
398	9000	13.06	321,000	870	316,000	870	307,000	870	294,000	850	281,000	795	258,000	715	217,000	595
420	9500	14.53	344,000	1020	338,000	1020	328,000	1020	319,000	1020	308,000	995	293,000	920	270,000	830
443	10000	16.20			360,000	1200	352,000	1200	342,000	1200	332,000	1190	322,000	1150	307,000	1070

Single Inlet **Single Width**

No. 18 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
44	1050	179	28,000	1.05												
50	1200	233	42,500	2.15												
58	1400	316	53,500	3 7												
66	1600	412	64,000	5 2	52,800	4.65										
75	1800	520	73,600	7 6	66,300	7.6	43,400	4.8								
83	2000	.645			77,300	11.0	67,900	9 4								
91	2200	780			87,700	14.5	81,000	14 0	68,400	11						
100	2400	930			98,200	18.5	91,400	18 5	84,500	17	69,100	13 5				
108	2600	1.09			108,000	23 5	102,000	23.5	96,500	23	88,800	21	71,500	16.5		
116	2800	1 20					112,000	29	107,000	29	102,000	28	93,500	25	75,300	20
124	3000	1 45					122,000	36	118,000	36	113,000	36	108,000	34	98,700	31
133	3200	1 65					132,000	44	127,000	44	124,000	44	119,000	43	114,000	[illegible]
141	3400	1 86							138,000	52	134,000	52	130,000	52	126,000	[illegible]
149	3600	2 10							148,000	61	144,000	64	140,000	64	136,000	62
158	3800	2 32									154,000	76	151,000	76	147,000	76
166	4000	2 58									163,000	86	161,000	86	157,000	86
174	4200	2 85											171,000	100	167,000	100
182	4400	3 13											180,000	115	177,000	115
191	4600	3.41													187,000	130
199	4800	3 70													197,000	150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
124	3000	1 45	82,200	25												
133	3200	1 65	105,000	37												
141	3400	1 86	120,000	49	98,100	38										
149	3600	2 10	133,000	62	119,000	54	89,500	40								
158	3800	2 32	143,000	74	135,000	68	117,000	58								
166	4000	2 58	153,000	86	146,000	84	135,000	74	113,000	62						
174	4200	2 85	164,000	100	158,000	98	149,000	94	136,000	82	110,000	66				
182	4400	3 13	175,000	115	168,000	115	162,000	110	152,000	105	137,000	90				
191	4600	3 41	185,000	130	179,000	130	173,000	130	167,000	125	155,000	115	103,000	74		
199	4800	3 70	194,000	150	189,000	150	183,000	150	178,000	145	169,000	135	138,000	105		
207	5000	4 05	204,000	170	199,000	170	194,000	170	188,000	170	181,000	165	160,000	140	105,000	92
218	5250	4 44			211,000	195	207,000	195	201,000	195	196,000	190	181,000	170	151,000	140
228	5500	4 88			224,000	225	219,000	225	214,000	225	209,000	225	198,000	210	178,000	185
239	5750	5 33			236,000	255	231,000	255	227,000	255	222,000	255	213,000	250	198,000	230
249	6000	5 80					244,000	290	239,000	290	235,000	290	226,000	290	215,000	270
259	6250	6 30							252,000	325	248,000	325	239,000	325	230,000	320
270	6500	6 81							265,000	370	260,000	370	252,000	370	244,000	365
280	6750	7 34							277,000	415	273,000	415	265,000	415	257,000	415
290	7000	7 89									285,000	465	278,000	465	270,000	465
311	7500	9 06											303,000	570	295,000	570
332	8000	10 32													321,000	690
352	8500	11 63													346,000	830

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
228	5500	4.88	134,000	140												
239	5750	5 33	173,000	195	110,000	125										
249	6000	5.80	197,000	245	164,000	200										
259	6250	6 30	218,000	295	196,000	250										
270	6500	6.81	234,000	355	218,000	315	146,000	210								
280	6750	7 34	248,000	405	236,000	375	190,000	290								
290	7000	7.89	262,000	455	252,000	440	220,000	355								
311	7500	9.06	288,000	570	281,000	565	262,000	510	222,000	425						
332	8000	10 32	313,000	690	308,000	690	293,000	655	272,000	600	226,000	485				
352	8500	11 63	339,000	830	333,000	830	320,000	815	305,000	775	280,000	695	234,000	570		
373	9000	13 05	364,000	990	358,000	990	348,000	990	333,000	965	318,000	905	292,000	810	246,000	675
394	9500	14 53	390,000	1160	384,000	1160	372,000	1160	362,000	1150	349,000	1130	332,000	1040	306,000	940
415	10000	16 20			408,000	1360	398,000	1360	388,000	1360	376,000	1350	364,000	1300	349,000	1220

Single Inlet

No. 20 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
39	1050	179	35,300	1.3												
44	1200	233	53,800	2.7												
52	1400	316	67,600	4.7												
59	1600	412	80,800	6.6	66,700	5.9										
66	1800	520	93,000	9.6	83,800	9.6	54,900	6.1								
74	2000	615			97,600	13.5	85,800	12.0								
81	2200	780			111,000	18.0	102,000	18.0	86,500	14.0						
89	2400	930			124,000	23.5	115,000	23.5	107,000	21.5	87,500	17				
96	2600	1.09			136,000	30	129,000	30	122,000	29	112,000	26	90,400	21		
103	2800	1.26					142,000	37	135,000	37	129,000	36	118,000	32	95,200	25
111	3000	1.45					154,000	46	148,000	46	143,000	46	136,000	43	125,000	39
118	3200	1.65					167,000	56	161,000	56	157,000	56	151,000	54	144,000	52
125	3400	1.86							174,000	66	169,000	66	164,000	66	159,000	66
133	3600	2.10							186,000	80	181,000	80	177,000	80	172,000	80
140	3800	2.32									195,000	96	191,000	96	185,000	96
148	4000	2.58									207,000	110	203,000	110	198,000	110
155	4200	2.85											216,000	125	211,000	125
162	4400	3.13											228,000	145	224,000	145
170	4600	3.41													237,000	165
177	4800	3.70													250,000	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
111	3000	1.45	104,000	32												
118	3200	1.65	133,000	47												
125	3400	1.86	152,000	62	124,000	48										
133	3600	2.10	168,000	78	151,000	68	113,000	50								
140	3800	2.32	181,000	92	170,000	86	148,000	72								
148	4000	2.58	193,000	110	185,000	105	170,000	94	143,000	78						
155	4200	2.85	207,000	125	199,000	125	189,000	120	172,000	105	139,000	84				
162	4400	3.13	221,000	145	212,000	145	205,000	140	193,000	130	173,000	115				
170	4600	3.41	234,000	165	226,000	165	218,000	165	210,000	160	196,000	145	131,000	94		
177	4800	3.70	245,000	190	238,000	190	232,000	190	225,000	185	214,000	170	174,000	135		
184	5000	4.05	258,000	215	252,000	215	245,000	215	238,000	215	220,000	205	203,000	175	133,000	115
194	5250	4.44			268,000	250	262,000	250	254,000	250	248,000	240	229,000	215	191,000	175
203	5500	4.88			282,000	285	277,000	285	270,000	285	264,000	285	251,000	270	225,000	235
212	5750	5.33			298,000	325	292,000	325	287,000	325	281,000	325	269,000	320	251,000	290
221	6000	5.80							302,000	365	297,000	365	286,000	365	271,000	345
231	6250	6.30							318,000	410	314,000	410	302,000	410	291,000	405
240	6500	6.81							335,000	465	329,000	465	318,000	465	309,000	460
249	6750	7.31							350,000	525	345,000	525	335,000	525	325,000	525
258	7000	7.89									360,000	585	351,000	585	342,000	585
277	7500	9.06											383,000	720	373,000	720
295	8000	10.32													405,000	875
313	8500	11.63													438,000	1050

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
203	5500	4.88	170,000	175												
212	5750	5.33	218,000	245	139,000	160										
221	6000	5.80	250,000	310	208,000	255										
231	6250	6.30	276,000	375	248,000	315										
240	6500	6.81	296,000	450	276,000	395	184,000	270								
249	6750	7.34	311,000	510	299,000	475	240,000	370								
258	7000	7.89	332,000	580	319,000	555	278,000	450								
277	7500	9.06	364,000	720	355,000	715	331,000	645	281,000	535						
295	8000	10.32	396,000	875	389,000	875	372,000	825	343,000	760	285,000	615				
313	8500	11.63	429,000	1050	420,000	1050	405,000	1030	386,000	980	354,000	880	295,000	720		
332	9000	13.05	460,000	1250	453,000	1250	439,000	1250	420,000	1220	403,000	1140	370,000	1030	311,000	850
350	9500	14.53	493,000	1460	485,000	1460	470,000	1460	456,000	1460	441,000	1430	420,000	1320	386,000	1190
369	10000	16.20			516,000	1720	504,000	1720	490,000	1720	475,000	1700	460,000	1640	441,000	1540

Single Inlet

No. 22 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
35	1050	179	43,600	1.65												
40	1200	233	66,500	3.35												
46	1400	316	83,000	5.8												
53	1600	412	100,000	8.2	82,400	7.3										
59	1800	520	115,000	12	104,000	12.0	67,900	7.5								
66	2000	645			121,000	17.0	106,000	14.5								
73	2200	780			137,000	22.5	127,000	22	107,000	17.5						
80	2400	930			153,000	29	143,000	29	132,000	27	108,000	21				
86	2600	1.09			168,000	37	159,000	37	151,000	36	139,000	32	112,000	26		
93	2800	1.26					175,000	46	167,000	46	160,000	44	146,000	39	118,000	31
100	3000	1.45					191,000	56	184,000	56	177,000	56	168,000	54	154,000	48
106	3200	1.65					206,000	70	199,000	70	193,000	70	180,000	68	178,000	64
113	3400	1.86							215,000	82	209,000	82	202,000	82	197,000	82
119	3600	2.10							230,000	98	224,000	98	219,000	98	213,000	98
126	3800	2.32									241,000	120	236,000	120	229,000	120
133	4000	2.58									255,000	135	251,000	135	245,000	135
139	4200	2.85											267,000	155	261,000	155
146	4400	3.13											282,000	180	277,000	180
152	4600	3.41													293,000	205
159	4800	3.70													308,000	235

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
100	3000	1.45	129,000	39												
106	3200	1.65	164,000	58												
113	3400	1.86	188,000	76	153,000	60										
119	3600	2.10	207,000	96	186,000	84	140,000	62								
126	3800	2.32	224,000	115	210,000	105	183,000	90								
133	4000	2.58	239,000	135	228,000	130	210,000	115	177,000	96						
139	4200	2.85	256,000	155	246,000	155	233,000	145	213,000	130	171,000	105				
146	4400	3.13	273,000	180	263,000	180	253,000	175	238,000	160	214,000	140				
152	4600	3.41	289,000	205	280,000	205	270,000	200	261,000	195	242,000	180	162,000	115		
159	4800	3.70	304,000	235	295,000	235	286,000	235	278,000	230	264,000	210	215,000	165		
166	5000	4.05	319,000	265	311,000	265	303,000	205	294,000	265	283,000	255	251,000	215	164,000	145
174	5250	4.44			330,000	310	323,000	310	314,000	310	306,000	300	283,000	270	236,000	220
182	5500	4.88			351,000	350	343,000	350	334,000	350	326,000	350	310,000	330	278,000	290
191	5750	5.33			369,000	400	362,000	400	355,000	400	348,000	400	333,000	395	310,000	360
199	6000	5.80							374,000	450	367,000	450	353,000	450	336,000	425
207	6250	6.30							393,000	505	388,000	505	373,000	505	359,000	500
216	6500	6.81							414,000	575	406,000	575	393,000	575	381,000	570
224	6750	7.34							432,000	650	426,000	650	414,000	650	402,000	650
232	7000	7.89									446,000	725	434,000	725	422,000	725
549	7500	9.06											473,000	890	461,000	890
265	8000	10.32													501,000	1080
282	8500	11.63													540,000	1290

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
182	5500	4.88	210,000	215												
191	5750	5.33	270,000	300	171,000	200										
199	6000	5.80	308,000	385	257,000	315										
207	6250	6.30	341,000	465	306,000	390										
216	6500	6.81	365,000	555	341,000	490	228,000	330								
224	6750	7.34	388,000	630	369,000	585	297,000	455								
232	7000	7.89	410,000	715	394,000	685	342,000	575								
249	7500	9.06	450,000	890	439,000	880	409,000	800	348,000	660						
265	8000	10.32	490,000	1080	481,000	1080	458,000	1040	424,000	840	353,000	760				
282	8500	11.63	530,000	1290	520,000	1290	501,000	1270	477,000	1210	438,000	1090	365,000	890		
299	9000	13.05	569,000	1540	560,000	1540	544,000	1540	520,000	1510	498,000	1410	457,000	1270	385,000	1050
315	9500	14.53	609,000	1810	600,000	1810	581,000	1810	565,000	1800	545,000	1700	519,000	1630	478,000	1470
332	10000	16.20			638,000	2120	623,000	2120	606,000	2120	587,000	2100	569,000	2030	545,000	1900

Single Inlet

No. 24 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
32	1050	.179	52,800	1.95												
37	1200	.233	80,500	4.05												
42	1400	.316	101,000	7.0												
49	1600	.412	121,000	9.9	99,700	8.8										
55	1800	.520	139,000	14.5	125,000	14.5	52,000	9.1								
60	2000	.645			146,000	20.5	128,000	18								
67	2200	.780			166,000	27	153,000	27	129,000	21						
73	2400	.930			186,000	35	173,000	35	160,000	32	131,000	26				
79	2600	1.09			203,000	45	192,000	45	183,000	43	168,000	39	135,000	31		
85	2800	1.26					212,000	56	202,000	56	193,000	51	177,000	47	142,000	38
91	3000	1.45					231,000	68	222,000	68	214,000	68	203,000	64	187,000	58
97	3200	1.65					250,000	84	241,000	84	234,000	84	225,000	82	215,000	76
103	3400	1.86							260,000	98	253,000	98	245,000	98	238,000	98
109	3600	2.10							279,000	120	272,000	120	264,000	120	258,000	120
115	3800	2.32									291,000	145	285,000	145	278,000	145
121	4000	2.58									309,000	165	304,000	165	296,000	165
127	4200	2.85											323,000	190	316,000	190
133	4400	3.13											340,000	215	334,000	215
140	4600	3.41													354,000	250
145	4800	3.70													373,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
91	3000	1.45	155,000	47												
97	3200	1.65	198,000	70												
103	3400	1.86	227,000	92	186,000	72										
109	3600	2.10	250,000	115	226,000	100	160,000	76								
115	3800	2.32	271,000	140	254,000	130	221,000	110								
121	4000	2.58	289,000	165	276,000	160	255,000	140	214,000	115						
127	4200	2.85	310,000	190	298,000	185	282,000	180	258,000	150	207,000	125				
133	4400	3.13	330,000	215	318,000	215	306,000	210	288,000	195	258,000	170				
140	4600	3.41	350,000	250	338,000	250	327,000	245	315,000	235	293,000	215	195,000	140		
145	4800	3.70	367,000	280	356,000	280	346,000	280	336,000	275	320,000	255	260,000	200		
151	5000	4.05	386,000	320	376,000	320	366,000	320	355,000	320	343,000	310	303,000	260	199,000	175
159	5250	4.44			400,000	370	391,000	370	380,000	370	370,000	365	342,000	325	285,000	265
167	5500	4.88			422,000	425	414,000	425	403,000	425	395,000	425	375,000	400	336,000	350
174	5750	5.33			445,000	485	437,000	485	429,000	485	420,000	485	403,000	475	375,000	435
181	6000	5.80							452,000	545	445,000	545	427,000	545	406,000	515
189	6250	6.30							476,000	610	469,000	610	451,000	610	434,000	605
197	6500	6.81							501,000	690	491,000	690	476,000	690	461,000	690
204	6750	7.34							523,000	785	516,000	785	500,000	785	486,000	785
211	7000	7.89									539,000	880	525,000	880	511,000	880
226	7500	9.06											572,000	1080	558,000	1080
241	8000	10.32													606,000	1310
256	8500	11.63													654,000	1580

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
167	5500	4.88	254,000	260												
174	5750	5.33	326,000	305	207,000	240										
181	6000	5.80	373,000	465	311,000	380										
189	6250	6.30	412,000	560	370,000	475										
197	6500	6.81	442,000	670	413,000	590	275,000	400								
204	6750	7.34	469,000	765	446,000	710	359,000	550								
211	7000	7.89	496,000	865	476,000	825	416,000	670								
226	7500	9.06	545,000	1080	530,000	1070	494,000	965	420,000	800						
241	8000	10.32	592,000	1310	582,000	1310	555,000	1250	513,000	1140	426,000	918				
256	8500	11.63	641,000	1580	630,000	1580	605,000	1540	578,000	1470	529,000	1320	441,000	1080		
271	9000	13.05	688,000	1870	677,000	1870	657,000	1870	629,000	1820	602,000	1710	552,000	1530	465,000	1270
287	9500	14.53	736,000	2180	725,000	2180	702,000	2180	683,000	2180	659,000	2130	628,000	1970	576,000	1780
302	10000	16.20			771,000	2570	752,000	2570	732,000	2570	710,000	2540	689,000	2460	658,000	2300

Single Inlet

No. 26 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
29	1050	.179	62,800	2.35												
34	1200	.233	95,700	4.85												
39	1400	.316	120,000	8.3												
44	1600	.412	144,000	12	119,000	10.5										
50	1800	.520	166,000	17	149,000	17.0	97,700	11								
56	2000	.645			174,000	24.5	153,000	21								
61	2200	.780			197,000	32	182,000	32	154,000	26						
67	2400	.930			218,000	42	206,000	42	190,000	38	156,000	31				
72	2600	1.09			242,000	54	229,000	54	217,000	52	200,000	47	161,000	37		
78	2800	1.26					253,000	66	241,000	66	230,000	64	210,000	56	169,000	45
83	3000	1.45					275,000	82	264,000	82	254,000	82	242,000	76	222,000	68
89	3200	1.65					297,000	100	286,000	100	278,000	100	268,000	98	256,000	92
94	3400	1.86							310,000	120	301,000	120	292,000	120	284,000	115
100	3600	2.10							332,000	140	323,000	140	315,000	140	307,000	140
106	3800	2.32									346,000	170	340,000	170	330,000	170
111	4000	2.58									368,000	195	362,000	195	352,000	195
116	4200	2.85											384,000	225	376,000	225
122	4400	3.13											405,000	260	398,000	260
128	4600	3.41													422,000	295
133	4800	3.70													444,000	335

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
83	3000	1.45	185,000	56												
89	3200	1.65	236,000	84												
94	3400	1.86	270,000	110	221,000	86										
100	3600	2.10	298,000	140	268,000	120	201,000	90								
106	3800	2.32	322,000	165	303,000	155	263,000	130								
111	4000	2.58	344,000	195	329,000	190	303,000	170	255,000	140						
116	4200	2.85	369,000	225	355,000	220	336,000	210	307,000	185	247,000	150				
122	4400	3.13	393,000	260	378,000	260	364,000	250	343,000	230	308,000	205				
128	4600	3.41	416,000	295	403,000	295	389,000	290	375,000	280	349,000	255	233,000	170		
133	4800	3.70	437,000	335	424,000	335	412,000	335	400,000	330	380,000	305	310,000	240		
139	5000	4.05	460,000	380	448,000	380	436,000	380	423,000	380	408,000	365	360,000	310	236,000	205
146	5250	4.44			475,000	445	465,000	445	452,000	445	440,000	430	408,000	385	339,000	315
153	5500	4.88			502,000	505	494,000	505	480,000	505	470,000	505	446,000	475	400,000	415
160	5750	5.33			531,000	575	520,000	575	511,000	575	500,000	575	479,000	565	446,000	515
166	6000	5.80							538,000	650	529,000	650	509,000	650	483,000	610
173	6250	6.30							566,000	730	558,000	730	537,000	730	517,000	720
180	6500	6.81							596,000	830	585,000	830	566,000	830	549,000	820
187	6750	7.34							623,000	935	614,000	935	596,000	935	578,000	935
194	7000	7.89									641,000	1050	625,000	1050	608,000	1050
207	7500	9.06											681,000	1280	664,000	1280
221	8000	10.32													721,000	1560
235	8500	11.63													778,000	1860

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
153	5500	4.88	302,000	310												
160	5750	5.33	389,000	435	247,000	285										
166	6000	5.80	444,000	550	370,000	450										
173	6250	6.30	490,000	665	440,000	565										
180	6500	6.81	526,000	800	491,000	705	328,000	475								
187	6750	7.34	558,000	910	531,000	845	428,000	655								
194	7000	7.89	590,000	1030	567,000	985	495,000	800								
207	7500	9.06	649,000	1280	631,000	1270	589,000	1150	500,000	955						
221	8000	10.32	705,000	1560	693,000	1560	660,000	1450	610,000	1350	508,000	1090				
235	8500	11.63	763,000	1860	748,000	1860	721,000	1830	687,000	1740	629,000	1570	525,000	1280		
249	9000	13.05	819,000	2220	806,000	2220	782,000	2220	749,000	2170	716,000	2030	657,000	1830	554,000	1520
262	9500	14.53	876,000	2600	863,000	2600	836,000	2600	812,000	2600	785,000	2540	746,000	2350	687,000	2120
276	10000	16.20			919,000	3050	896,000	3050	873,000	3050	845,000	3030	820,000	2930	785,000	2740

Single Inlet

No. 24 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
32	1050	.179	52,800	1.95												
37	1200	233	80,500	4.05												
42	1400	316	101,000	7.0												
49	1600	412	121,000	9.9	99,700	8.8										
55	1800	520	139,000	14.5	125,000	14.5	52,000	9.1								
60	2000	645			146,000	20.5	128,000	18								
67	2200	780			166,000	27	153,000	27	129,000	21						
73	2400	930			186,000	35	173,000	35	160,000	32	131,000	26				
79	2600	1.09			203,000	45	192,000	45	183,000	43	168,000	39	135,000	31		
85	2800	1.26					212,000	56	202,000	56	193,000	51	177,000	47	142,000	38
91	3000	1.45					231,000	68	222,000	68	214,000	68	203,000	64	187,000	58
97	3200	1.65					250,000	84	241,000	84	234,000	84	225,000	82	215,000	76
103	3400	1.86							260,000	98	253,000	98	245,000	98	238,000	98
109	3600	2.10							279,000	120	272,000	120	264,000	120	258,000	120
115	3800	2.32									291,000	145	285,000	145	278,000	145
121	4000	2.58									309,000	165	304,000	165	296,000	165
127	4200	2.85											323,000	190	316,000	190
133	4400	3.13											340,000	215	334,000	215
140	4600	3.41													354,000	250
145	4800	3.70													373,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
91	3000	1.45	155,000	47												
97	3200	1.65	198,000	70												
103	3400	1.86	227,000	92	186,000	72										
109	3600	2.10	250,000	115	226,000	100	160,000	76								
115	3800	2.32	271,000	140	254,000	130	221,000	110								
121	4000	2.58	289,000	165	276,000	160	255,000	140	214,000	115						
127	4200	2.85	310,000	190	298,000	185	282,000	180	258,000	150	207,000	125				
133	4400	3.13	330,000	215	318,000	215	306,000	210	288,000	195	258,000	170				
140	4600	3.41	350,000	250	338,000	250	327,000	245	315,000	235	293,000	215	195,000	140		
145	4800	3.70	367,000	280	356,000	280	346,000	280	336,000	275	320,000	255	260,000	200		
151	5000	4.05	386,000	320	376,000	320	366,000	320	355,000	320	343,000	310	303,000	260	199,000	175
159	5250	4.44			400,000	370	391,000	370	380,000	370	370,000	365	342,000	325	285,000	265
167	5500	4.88			422,000	425	414,000	425	403,000	425	395,000	425	375,000	400	336,000	350
174	5750	5.33			445,000	485	437,000	485	429,000	485	420,000	485	403,000	475	375,000	435
181	6000	5.80							452,000	545	145,000	545	427,000	545	406,000	515
189	6250	6.30							476,000	610	469,000	610	451,000	610	434,000	605
197	6500	6.81							501,000	690	491,000	690	476,000	690	461,000	690
204	6750	7.34							523,000	785	516,000	785	500,000	785	486,000	785
211	7000	7.89									539,000	880	525,000	880	511,000	880
226	7500	9.06											572,000	1080	558,000	1080
241	8000	10.32													606,000	1310
256	8500	11.63													654,000	1580

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
167	5500	4.88	254,000	260												
174	5750	5.33	326,000	365	207,000	240										
181	6000	5.80	373,000	465	311,000	380										
189	6250	6.30	412,000	560	370,000	475										
197	6500	6.81	442,000	670	413,000	590	275,000	400								
204	6750	7.31	469,000	765	446,000	710	359,000	550								
211	7000	7.89	496,000	865	476,000	825	416,000	670								
226	7500	9.06	545,000	1080	530,000	1070	494,000	965	420,000	800						
241	8000	10.32	592,000	1310	582,000	1310	555,000	1250	513,000	1140	426,000	918				
256	8500	11.63	641,000	1580	630,000	1580	605,000	1540	578,000	1470	529,000	1320	441,000	1080		
271	9000	13.05	688,000	1870	677,000	1870	657,000	1870	629,000	1820	602,000	1710	552,000	1530	465,000	1270
287	9500	14.53	736,000	2180	725,000	2180	702,000	2180	683,000	2180	659,000	2130	628,000	1970	576,000	1780
302	10000	16.20			771,000	2570	752,000	2570	732,000	2570	710,000	2540	689,000	2460	658,000	2300

Double Inlet

No. 3 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
265	1000	0.147	682	0 024												
318	1200	0 212	1,150	0 056												
371	1400	0 288	1,530	0.099	910	0 062										
424	1600	0 376	1,870	0 155	1,430	0 125										
477	1800	0 476	2,200	0 23	1,830	0.20	1,380	0.155								
530	2000	0 588			2,200	0 29	1,840	0 250	1,360	0.19						
583	2200	0 711			2,540	0.40	2,230	0 365	1,880	0 31	1,380	0.235				
636	2400	0.847			2,870	0 54	2,600	0 495	2,310	0 45	1,970	0 39	1,500	0.300		
689	2600	0 994			3,200	0 7	2,940	0 66	2,690	0.61	2,410	0 55	2,080	0.485	1,630	0 385
742	2800	1 15					3,290	0.84	3,060	0 79	2,800	0 74	2,540	0 68	2,220	0 60
795	3000	1 32					3,620	1.05	3,400	1.00	3,170	0.95	2,940	0 90	2,690	0 84
848	3200	1 51					3,940	1 3	3,750	1.25	3,540	1.20	3,340	1.15	3,110	1.10
901	3400	1 70							4,080	1.55	3,880	1.45	3,680	1 40	3,480	1.35
953	3600	1.91							4,400	1.85	4,200	1 80	4,040	1 70	3,850	1 65
1007	3800	2 13									4,550	2.15	4,370	2.05	4,200	2.0
1060	4800	2 35									4,880	2.55	4,710	2.45	4,550	2.4
1113	4200	2.59											5,030	2.9	4,880	2.8
1166	4400	2 84													5,220	3.3
1220	4600	3.11													5,550	3.8
1273	4800	3 39													5,880	4.4

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
742	2800	1.15	1,820	0 50												
795	3000	1.32	2,400	0.74												
848	3200	1.51	2,850	1 00	2,280	0 81										
901	3400	1.70	3,280	1.30	2,800	1.10	2,120	0.86								
954	3600	1.91	3,660	1.60	3,250	1.45	2,750	1 25								
1007	3800	2 13	4,030	1.95	3,670	1.80	3,250	1.60	2,740	1.35						
1060	4000	2 35	4,380	2 30	4,040	2.15	3,670	2 00	3,250	1 80	2,720	1 5				
1113	4200	2 59	4,730	2 75	4,410	2 60	4,080	2.45	3,700	2.20	3,290	2.0				
1166	4400	2 84	5,070	3.2	4,780	3.05	4,470	2.90	4,130	2.70	3,760	2 5	2,770	1.85		
1220	4600	3 11	5,410	3 7	5,130	3.55	4,850	3.40	4,520	3.25	4,200	3.0	3,420	2.50		
1273	4800	3 39	5,740	4 3	5,460	4.10	5,200	3.95	4,900	3.8	4,610	3.6	3,930	3.10	2,960	2.55
1326	5000	3 67	6,060	4 9	5,800	4.75	5,550	4 55	5,290	4.4	5,000	4 2	4,400	3.75	3,640	3.15
1392	5250	4.05			6,220	5 6	5,970	5.4	5,730	5.2	5,480	5.0	4,930	4.6	4,300	4.05
1459	5500	4 45			6,630	6.5	6,400	6.3	6,160	6.2	5,930	6.0	5,410	5.5	4,850	5.0
1524	5750	4 85			7,040	7 5	6,820	7.3	6,600	7.1	6,350	7 0	5,880	6.5	5,380	6.0
1590	6000	5 29					7,240	8.5	7,000	8 2	6,790	8 0	6,350	7.6	5,890	7.2
1658	6250	5 75					7,630	9.7	7,410	9 5	7,230	9 3	6,810	8.8	6,380	8.4
1723	6500	6 20							7,850	10.5	7,610	10 5	7,230	10.0	6,850	9.6
1790	6750	6 70							8,240	12	8,050	12.0	7,650	11.5	7,300	11 0
1856	7000	7 20									8,470	13.5	8,100	13 0	7,740	12.5
1990	7500	8 26											8,920	16.5	8,580	16.0
2120	8000	9 4											9,750	20	9,430	19.5
2258	8500	10 6													10,200	24
2390	9000	11.9													11,100	29

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1392	5250	4 05	3,450	3 35												
1459	5500	4 45	4,210	4.4	3,140	3 65										
1524	5750	4 85	4,810	5 5	4,130	4.75										
1590	6000	5 29	5,380	6 6	4,800	5.9										
1658	6250	5 75	5,900	7 8	5,380	7.2	4,050	5 5								
1723	6500	6 20	6,390	9.1	5,930	8 5	4,810	7 0								
1790	6750	6 70	6,880	10.5	6,450	9 9	5,480	8.5	4,110	6.5						
1856	7000	7 20	7,330	12 0	6,950	11.5	6,050	10 0	4,930	8 3						
1990	7500	8 26	8,210	15.5	7,900	15.0	7,100	13 5	6,200	12.0	5,160	10.0				
2120	8000	9 40	9,100	19 0	8,770	18.5	8,070	17.5	7,350	16 0	6,500	14.5	5,430	12		
2258	8500	10 60	9,940	23.5	9,610	23	9,000	21 5	8,350	20 5	7,610	19	6,820	17	5,800	14.5
2390	9000	11.90	10,800	28	10,500	28	9,890	26	9,300	25	8,680	24	7,980	22	7,200	20
2520	9500	13.28	11,600	34	11,300	33	10,800	32	10,200	31	9,650	29	9,030	28	8,350	26
2650	10000	14 7			12,100	39	11,600	38	11,100	36	10,600	35	10,000	33	9,450	32

Single Inlet **Single Width**

No. 24 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
32	1050	.179	52,800	1.95												
37	1200	.233	80,500	4.05												
42	1400	.316	101,000	7.0												
49	1600	.412	121,000	9.9	99,700	8.8										
55	1800	.520	139,000	14.5	125,000	14.5	52,000	9.1								
60	2000	.645			146,000	20.5	128,000	18								
67	2200	.780			166,000	27	153,000	27	129,000	21						
73	2400	.930			186,000	35	173,000	35	160,000	32	131,000	26				
79	2600	1.09			203,000	45	192,000	45	183,000	43	168,000	39	135,000	31		
85	2800	1.26					212,000	56	202,000	56	193,000	51	177,000	47	142,000	38
91	3000	1.45					231,000	68	222,000	68	214,000	68	203,000	64	187,000	58
97	3200	1.65					250,000	84	241,000	84	234,000	84	225,000	82	215,000	76
103	3400	1.86							260,000	98	253,000	98	245,000	98	238,000	98
109	3600	2.10							279,000	120	272,000	120	264,000	120	258,000	120
115	3800	2.32									291,000	145	285,000	145	278,000	145
121	4000	2.58									309,000	165	304,000	165	296,000	165
127	4200	2.85											323,000	190	316,000	190
133	4400	3.13											340,000	215	334,000	215
140	4600	3.41													354,000	250
145	4800	3.70													373,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
91	3000	1.45	155,000	47												
97	3200	1.65	198,000	70												
103	3400	1.86	227,000	92	186,000	72										
109	3600	2.10	250,000	115	226,000	100	169,000	76								
115	3800	2.32	271,000	140	254,000	130	221,000	110								
121	4000	2.58	289,000	165	276,000	160	255,000	140	214,000	115						
127	4200	2.85	310,000	190	298,000	185	282,000	180	258,000	150	207,000	125				
133	4400	3.13	330,000	215	318,000	215	306,000	210	288,000	195	258,000	170				
140	4600	3.41	350,000	250	338,000	250	327,000	245	315,000	235	293,000	215	195,000	140		
145	4800	3.70	367,000	280	356,000	280	346,000	280	336,000	275	320,000	255	260,000	200		
151	5000	4.05	386,000	320	376,000	320	366,000	320	355,000	320	343,000	310	303,000	260	199,000	175
159	5250	4.44			400,000	370	391,000	370	380,000	370	370,000	365	342,000	325	285,000	265
167	5500	4.88			422,000	425	414,000	425	403,000	425	395,000	425	375,000	400	336,000	350
174	5750	5.33			445,000	485	437,000	485	429,000	485	420,000	485	403,000	475	375,000	435
181	6000	5.80							452,000	545	445,000	545	427,000	545	406,000	515
189	6250	6.30							476,000	610	469,000	610	451,000	610	434,000	605
197	6500	6.81							501,000	690	491,000	690	476,000	690	461,000	690
204	6750	7.34							523,000	785	516,000	785	500,000	785	486,000	785
211	7000	7.89									539,000	880	525,000	880	511,000	880
226	7500	9.06											572,000	1080	558,000	1080
241	8000	10.32													606,000	1310
256	8500	11.63													654,000	1580

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
167	5500	4.88	254,000	260												
174	5750	5.33	326,000	305	207,000	240										
181	6000	5.80	373,000	465	311,000	380										
189	6250	6.30	412,000	560	370,000	475										
197	6500	6.81	442,000	670	413,000	590	275,000	400								
204	6750	7.34	469,000	765	446,000	710	359,000	550								
211	7000	7.89	496,000	865	476,000	825	416,000	670								
226	7500	9.06	545,000	1080	530,000	1070	494,000	965	420,000	800						
241	8000	10.32	592,000	1310	582,000	1310	555,000	1250	513,000	1140	426,000	918				
256	8500	11.63	641,000	1580	630,000	1580	605,000	1540	578,000	1470	529,000	1320	441,000	1080		
271	9000	13.05	688,000	1870	677,000	1870	657,000	1870	629,000	1820	602,000	1710	552,000	1530	465,000	1270
287	9500	14.53	736,000	2180	725,000	2180	702,000	2180	683,000	2180	659,000	2130	628,000	1970	576,000	1780
302	10000	16.20			771,000	2570	752,000	2570	732,000	2570	710,000	2540	689,000	2460	658,000	2300

Double Inlet

No. 5 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
189	1000	0.147	1,330	0.046												
227	1200	0.212	2,250	0.110												
265	1400	0.288	2,990	0.195	1,780	0.120										
303	1600	0.376	3,650	0.305	2,790	0.245										
341	1800	0.476	4,300	0.45	3,580	0.39	2,690	0.30								
379	2000	0.588			4,290	0.57	3,580	0.49	2,650	0.37						
417	2200	0.711			4,950	0.78	4,360	0.71	3,680	0.61	2,700	0.455				
455	2400	0.847			5,600	1.05	5,080	0.97	4,500	0.88	3,840	0.76	2,940	0.59		
492	2600	0.991			6,250	1.35	5,750	1.30	5,250	1.20	4,700	1.10	4,070	0.95	3,190	0.75
530	2800	1.15					6,430	1.65	5,970	1.55	5,480	1.45	4,950	1.35	4,350	1.15
568	3000	1.32					7,070	2.05	6,650	1.95	6,200	1.85	5,750	1.75	5,250	1.65
606	3200	1.51					7,700	2.55	7,320	2.45	6,920	2.35	6,520	2.25	6,070	2.10
641	3400	1.70							7,960	3.0	7,600	2.85	7,190	2.75	6,800	2.65
682	3600	1.91							8,590	3.6	8,210	3.50	7,890	3.35	7,510	3.25
720	3800	2.13									8,890	4.20	8,540	4.05	8,210	3.90
758	4000	2.35									9,540	4.95	9,210	4.8	8,890	4.65
795	4200	2.59											9,840	5.7	9,540	5.5
833	4400	2.84													10,200	6.4
871	4600	3.11													10,800	7.4
908	4800	3.39													11,500	8.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
530	2800	1.15	3,560	0.98												
568	3000	1.32	4,700	1.45												
606	3200	1.51	5,580	1.95	4,450	1.60										
644	3400	1.70	6,400	2.50	5,480	2.15	4,140	1.65								
682	3600	1.91	7,150	3.10	6,350	2.80	5,380	2.40								
720	3800	2.13	7,860	3.80	7,170	3.50	6,350	3.15	5,350	2.70						
758	4000	2.35	8,560	4.55	7,900	4.25	7,160	3.90	6,350	3.50	5,300	2.95				
795	4200	2.59	9,240	5.4	8,640	5.1	7,960	4.75	7,220	4.35	6,420	3.90				
833	4400	2.84	9,900	6.2	9,340	6.0	8,740	5.7	8,060	5.3	7,350	4.85	5,400	3.65		
871	4600	3.11	10,600	7.3	10,000	7.0	9,450	6.7	8,840	6.3	8,210	5.9	6,660	4.9		
908	4800	3.39	11,200	8.4	10,700	8.0	10,200	7.7	9,590	7.4	9,010	7.0	7,660	6.1	5,780	5.0
947	5000	3.67	11,900	9.6	11,300	9.2	10,800	8.9	10,300	8.6	9,780	8.2	8,590	7.3	7,120	6.2
994	5250	4.05			12,200	11.0	11,700	10.5	11,200	10.0	10,700	9.9	9,640	9.0	8,390	8.0
1042	5500	4.45			13,000	13.0	12,500	12.5	12,000	12.0	11,600	11.5	10,600	11.0	9,490	9.8
1090	5750	4.85			13,800	14.5	13,300	14.5	12,900	14.0	12,400	13.5	11,500	13.0	10,500	12.0
1136	6000	5.29					14,100	16.5	13,700	16.0	13,300	15.5	12,400	15.0	11,500	14.0
1183	6250	5.75					14,900	19	14,500	18.5	14,100	18.0	13,300	17.0	12,500	16.5
1230	6500	6.20							15,300	21	14,900	20.5	14,100	19.5	13,400	19.0
1278	6750	6.70							16,100	24	15,700	23.5	14,900	22.5	14,300	21.5
1325	7000	7.20									16,600	26	15,800	25	15,100	24.5
1420	7500	8.26											17,400	32	16,800	31
1514	8000	9.4											19,000	40	18,400	38
1610	8500	10.6													20,000	47
1700	9000	11.9													21,600	56

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
994	5250	4.05	6,750	6.5												
1042	5500	4.45	8,240	8.6	6,120	7.1										
1090	5750	4.85	9,400	10.5	8,000	9.2										
1136	6000	5.29	10,500	13.0	9,380	11.5										
1183	6250	5.75	11,500	15.5	10,500	14.0	7,010	11.0								
1230	6500	6.20	12,500	18.0	11,600	16.5	9,410	14.0								
1278	6750	6.70	13,400	20.5	12,600	19.5	10,700	16.5	8,050	13.0						
1325	7000	7.20	14,300	23.5	13,600	22.5	11,800	20	9,640	16.0						
1420	7500	8.26	16,100	30	15,400	29	13,900	26	12,100	23.5	10,100	20				
1514	8000	9.40	17,800	37	17,100	36	15,800	34	14,400	31	12,700	28	10,600	23.5		
1610	8500	10.60	19,400	46	18,800	45	17,600	42	16,300	40	14,900	37	13,300	33	11,300	28
1700	9000	11.90	21,100	56	20,400	54	19,300	52	18,200	49	17,000	46	15,600	43	14,100	39
1795	9500	13.28	22,700	66	22,100	64	21,000	62	20,000	60	18,900	58	17,600	54	16,300	50
1894	10000	14.7			23,700	76	22,700	74	21,700	72	20,700	70	19,600	66	18,500	62

Single Inlet

No. 24 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
32	1050	.179	52,800	1.95												
37	1200	.233	80,500	4.05												
42	1400	.316	101,000	7.0												
49	1600	.412	121,000	9.9	99,700	8.8										
55	1800	.520	139,000	14.5	125,000	14.5	52,000	9.1								
60	2000	.645			146,000	20.5	128,000	18								
67	2200	.780			166,000	27	153,000	27	129,000	21						
73	2400	.930			186,000	35	173,000	35	160,000	32	131,000	26				
79	2600	1.09			203,000	45	192,000	45	183,000	43	168,000	39	135,000	31		
85	2800	1.26					212,000	56	202,000	56	193,000	51	177,000	47	142,000	38
91	3000	1.45					231,000	68	222,000	68	214,000	68	203,000	64	187,000	58
97	3200	1.65					250,000	84	241,000	84	234,000	84	225,000	82	215,000	76
103	3400	1.86							260,000	98	253,000	98	245,000	98	238,000	98
109	3600	2.10							279,000	120	272,000	120	264,000	120	258,000	120
115	3800	2.32									291,000	145	285,000	145	278,000	145
121	4000	2.58									309,000	165	304,000	165	296,000	165
127	4200	2.85											323,000	190	316,000	190
133	4400	3.13											340,000	215	334,000	215
140	4600	3.41													354,000	250
145	4800	3.70													373,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
91	3000	1.45	155,000	47												
97	3200	1.65	198,000	70												
103	3400	1.86	227,000	92	186,000	72										
109	3600	2.10	250,000	115	226,000	100	160,000	76								
115	3800	2.32	271,000	140	254,000	130	221,000	110								
121	4000	2.58	289,000	165	276,000	160	255,000	140	214,000	115						
127	4200	2.85	310,000	190	298,000	185	282,000	180	258,000	150	207,000	125				
133	4400	3.13	330,000	215	318,000	215	306,000	210	288,000	195	258,000	170				
140	4600	3.41	350,000	250	338,000	250	327,000	245	315,000	235	293,000	215	195,000	140		
145	4800	3.70	367,000	280	356,000	280	346,000	280	336,000	275	320,000	255	260,000	200		
151	5000	4.05	386,000	320	376,000	320	366,000	320	355,000	320	343,000	310	303,000	260	199,000	175
159	5250	4.44			400,000	370	391,000	370	380,000	370	370,000	365	342,000	325	285,000	265
167	5500	4.88			422,000	425	414,000	425	403,000	425	395,000	425	375,000	400	336,000	350
174	5750	5.33			445,000	485	437,000	485	429,000	485	420,000	485	403,000	475	375,000	435
181	6000	5.80							452,000	545	445,000	545	427,000	545	406,000	515
189	6250	6.30							476,000	610	469,000	610	451,000	610	434,000	605
197	6500	6.81							501,000	690	491,000	690	476,000	690	461,000	690
204	6750	7.34							523,000	785	516,000	785	500,000	785	486,000	785
211	7000	7.89									539,000	880	525,000	880	511,000	880
226	7500	9.06											572,000	1080	558,000	1080
241	8000	10.32													606,000	1310
256	8500	11.63													654,000	1580

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
167	5500	4.88	254,000	260												
174	5750	5.33	326,000	365	207,000	240										
181	6000	5.80	373,000	465	311,000	380										
189	6250	6.30	412,000	560	370,000	475										
197	6500	6.81	442,000	670	413,000	590	275,000	400								
204	6750	7.34	469,000	765	446,000	710	359,000	550								
211	7000	7.89	496,000	865	476,000	825	416,000	670								
226	7500	9.06	545,000	1080	530,000	1070	494,000	965	420,000	800						
241	8000	10.32	592,000	1310	582,000	1310	555,000	1250	513,000	1140	426,000	918				
256	8500	11.63	641,000	1580	630,000	1580	605,000	1540	578,000	1470	529,000	1320	441,000	1080		
271	9000	13.05	688,000	1870	677,000	1870	657,000	1870	629,000	1820	602,000	1710	552,000	1530	465,000	1270
287	9500	14.53	736,000	2180	725,000	2180	702,000	2180	683,000	2180	659,000	2130	628,000	1970	576,000	1780
302	10000	16.20			771,000	2570	752,000	2570	732,000	2570	710,000	2540	689,000	2460	658,000	2300

Double Inlet

No. 6½ Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
148	1000	0.147	2,240	0.078												
177	1200	0.212	3,780	0.185												
206	1400	0.288	5,020	0.325	2,980	0.205										
236	1600	0.376	6,140	0.51	4,690	0.41										
265	1800	0.476	7,220	0.76	6,010	0.66	4,520	0.51								
294	2000	0.588			7,200	0.95	6,020	0.82	4,450	0.62						
324	2200	0.711			8,320	1.30	7,320	1.20	6,180	1.05	4,540	0.77				
354	2400	0.817			9,410	1.75	8,540	1.65	7,570	1.5	6,450	1.30	4,940	0.98		
383	2600	0.994			10,500	2.3	9,660	2.15	8,830	2.0	7,910	1.80	6,840	1.60	5,350	1.25
412	2800	1.15					10,800	2.75	10,000	2.6	9,200	2.45	8,330	2.25	7,300	1.95
442	3000	1.32					11,900	3.15	11,200	3.3	10,400	3.15	9,660	2.95	8,820	2.75
472	3200	1.51					12,900	4.3	12,300	4.1	11,600	3.95	11,000	3.75	10,200	3.55
500	3400	1.70							13,400	5.0	12,800	4.8	12,100	4.65	11,400	4.45
530	3600	1.91							14,400	6.1	13,800	5.8	13,300	5.6	12,600	5.4
558	3800	2.13									14,900	7.0	14,300	6.8	13,800	6.6
590	4000	2.35									16,000	8.3	15,500	8.1	14,900	7.8
619	4200	2.59											16,500	9.5	16,000	9.2
648	4400	2.84													17,200	11.0
677	4600	3.11													18,200	12.5
707	4800	3.39													19,300	14.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
412	2800	1.15	5,980	1.65												
442	3000	1.32	7,900	2.45												
472	3200	1.51	9,370	3.25	7,480	2.65										
500	3400	1.70	10,800	4.2	9,200	3.65	6,950	2.80								
530	3600	1.91	12,000	5.3	10,700	4.7	9,040	4.05								
558	3800	2.13	13,200	6.4	12,100	5.9	10,700	5.3	9,000	4.5						
590	4000	2.35	14,400	7.6	13,300	7.1	12,100	6.6	10,700	5.9	8,920	4.95				
619	4200	2.59	15,500	9.0	14,500	8.5	13,400	8.0	12,100	7.3	10,800	6.6				
648	4400	2.84	16,700	10.5	15,700	10.0	14,700	9.5	13,600	8.9	12,400	8.2	9,080	6.1		
677	4600	3.11	17,800	12	16,900	11.5	15,900	11.0	14,900	10.5	13,800	9.9	11,200	8.2		
707	4800	3.39	18,800	14	17,900	13.5	17,100	13.0	16,100	12.5	15,200	12.0	12,900	10.0	9,700	8.4
736	5000	3.67	19,900	16	19,000	15.5	18,200	15.0	17,400	14.5	16,500	14.0	14,400	12.5	12,000	10.5
774	5250	4.05			20,400	18.5	19,600	17.5	18,800	17.0	18,000	16.5	16,200	15.0	14,100	13.5
810	5500	4.45			21,800	21.5	21,000	20.5	20,200	20.0	19,500	19.5	17,800	18.0	15,900	16.5
847	5750	4.85			23,100	24.5	22,400	24	21,700	23.5	20,900	23	19,300	21.5	17,700	20.0
885	6000	5.29					23,800	28	23,000	27	22,300	26	20,900	25	19,400	23.5
920	6250	5.75					25,000	32	24,400	31	23,700	30	22,400	29	20,900	28
957	6500	6.20							25,700	35	25,000	34	23,700	33	22,500	32
995	6750	6.70							27,000	40	26,400	39	25,100	38	24,000	36
1030	7000	7.20									27,800	44	26,600	43	25,400	41
1098	7500	8.26											29,300	54	28,200	52
1170	8000	9.4											32,000	66	31,000	64
1244	8500	10.6													33,600	78
1318	9000	11.9													36,300	96

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
774	5250	4.05	11,300	11.0												
810	5500	4.45	13,900	14.5	10,300	12.0										
847	5750	4.85	15,800	18.0	13,600	15.5										
885	6000	5.29	17,700	21.5	15,800	19.5										
920	6250	5.75	19,400	26	17,700	23.5	13,300	18								
957	6500	6.20	21,000	30	19,500	28	15,800	23								
995	6750	6.70	22,600	35	21,200	33	18,000	28	13,500	21.5						
1030	7000	7.20	24,100	40	22,800	38	19,900	33	16,200	27						
1098	7500	8.26	27,000	50	25,900	49	23,300	44	20,400	39	17,000	33				
1170	8000	9.40	29,800	62	28,800	60	26,500	58	24,100	52	21,300	47	17,800	40		
1244	8500	10.60	32,600	76	31,600	74	29,600	70	27,400	66	25,000	62	22,400	56	19,000	48
1318	9000	11.90	35,400	94	34,300	90	32,500	86	30,500	84	28,500	78	26,200	72	23,600	66
1390	9500	13.28	38,100	110	37,100	110	35,400	105	33,500	100	31,700	96	29,600	90	27,400	84
1463	10000	14.7			39,800	130	38,100	125	36,400	120	34,700	115	32,900	110	31,000	105

Double Inlet **Single Width**

No. 7 Multivane Fan — Design 2

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
133	1000	0.147	2,730	0.095												
159	1200	0.212	4,610	0.225												
186	1400	0.288	6,120	0.395	3,640	0.25										
212	1600	0.376	7,180	0.62	5,710	0.50										
239	1800	0.476	8,800	0.93	7,320	0.80	5,510	0.62								
265	2000	0.588			8,780	1.15	7,350	1.00	5,430	0.76						
292	2200	0.712			10,200	1.60	8,930	1.45	7,530	1.25	5,530	0.94				
318	2400	0.847			11,500	2.15	10,000	2.00	9,230	1.80	7,860	1.55	6,010	1.20		
345	2600	0.994			12,800	2.8	11,800	2.65	10,800	2.45	9,650	2.2	8,330	1.95	6,520	1.55
371	2800	1.15					13,200	3.35	12,200	3.20	11,200	3.0	10,200	2.70	8,900	2.40
398	3000	1.32					14,500	4.2	13,600	4.05	12,700	3.8	11,800	3.60	10,800	3.35
424	3200	1.51					15,800	5.2	15,000	5.0	14,200	4.8	13,400	4.55	12,400	4.3
451	3400	1.70							16,300	6.1	15,600	5.9	14,700	5.6	13,900	5.4
478	3600	1.91							17,600	7.4	16,800	7.1	16,200	6.9	15,400	6.6
504	3800	2.13									18,200	8.6	17,500	8.3	16,800	8.0
530	4000	2.35									19,500	10	18,900	9.8	18,200	9.5
557	4200	2.59											20,100	11.5	19,500	11.0
584	4400	2.84													20,900	13.0
610	4600	3.11													22,200	15.5
637	4800	3.39													23,500	17.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
371	2800	1.15	7,300	2.00												
398	3000	1.32	9,610	2.95												
424	3200	1.51	11,400	4.0	9,110	3.25										
451	3400	1.70	13,100	5.1	11,200	4.45	8,470	3.4								
478	3600	1.91	14,600	6.4	13,000	5.7	11,000	4.9								
504	3800	2.13	16,100	7.8	14,700	7.2	13,000	6.4	11,000	5.5						
530	4000	2.35	17,600	9.3	16,200	8.7	14,700	8.0	13,000	7.1	10,900	6.0				
557	4200	2.59	18,900	11.0	17,700	10.5	16,300	9.7	14,800	8.9	13,200	8.0				
584	4400	2.84	20,300	13.0	19,100	12.0	17,900	11.5	16,500	11.0	15,000	9.9	11,100	7.5		
610	4600	3.11	21,700	15.0	20,600	14.5	19,400	13.5	18,100	13.0	16,800	12.0	13,700	10.0		
637	4800	3.39	23,000	17.5	21,900	16.5	20,800	16.0	19,600	15.0	18,500	14.5	15,700	12.5	11,800	10.0
663	5000	3.67	24,300	19.5	23,200	19.0	22,200	18.0	21,200	17.5	20,000	17	17,600	15.0	14,600	12.5
697	5250	4.05			24,900	22.5	23,900	21.5	23,000	21.0	21,900	20	19,700	18.5	17,200	16.5
730	5500	4.45			26,500	26	25,600	25	24,700	24.5	23,700	24	21,700	22	19,100	20
763	5750	4.85			28,200	30	27,300	29	26,400	29	25,400	28	23,600	26	21,500	24
796	6000	5.29					29,000	34	28,100	33	27,200	32	25,400	30	23,600	29
829	6250	5.75					30,500	39	29,700	38	28,900	37	27,300	35	25,500	34
862	6500	6.20							31,400	43	30,500	42	28,900	40	27,100	39
895	6750	6.70							33,000	49	32,200	48	30,600	46	29,200	44
928	7000	7.20									33,900	54	32,500	52	31,000	50
995	7500	8.26											35,700	66	34,100	64
1060	8000	9.4											39,000	80	37,700	78
1125	8500	10.6													41,000	96
1192	9000	11.9													44,300	115

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
697	5250	4.05	13,800	13.5												
730	5500	4.45	16,900	17.5	12,500	14.5										
763	5750	4.85	19,300	22	16,500	19										
796	6000	5.29	21,500	26	19,200	24										
829	6250	5.75	23,600	31	21,600	29	16,200	22								
862	6500	6.20	25,600	36	23,700	34	19,300	28								
895	6750	6.70	27,600	42	25,800	40	21,900	34	16,500	26						
928	7000	7.20	29,300	48	27,800	46	24,200	41	19,800	33						
995	7500	8.26	32,900	62	31,600	60	28,400	54	24,800	48	20,700	41				
1060	8000	9.40	36,400	76	35,100	74	32,300	70	29,400	64	26,000	58	21,800	48		
1125	8500	10.60	39,800	94	38,500	92	36,000	86	33,400	82	30,500	76	27,300	68	23,200	58
1192	9000	11.90	43,100	115	41,900	110	39,600	105	37,200	100	34,800	96	32,000	88	28,800	80
1260	9500	13.28	46,400	135	45,300	135	43,100	130	40,900	120	38,600	115	36,200	110	33,400	105
1326	10000	14.7			48,500	160	46,500	150	44,400	145	42,400	140	40,100	135	37,800	130

Double Inlet

No. 8 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
111	1000	0.147	3,960	0.140												
133	1200	0.212	6,690	0.325												
155	1400	0.288	8,870	0.58	5,270	0.36										
177	1600	0.376	10,900	0.90	8,280	0.72										
199	1800	0.476	12,800	1.35	10,600	1.15	7,990	0.90								
221	2000	0.588			12,700	1.70	10,700	1.45	7,870	1.10						
243	2200	0.711			14,700	2.30	13,000	2.1	10,900	1.80	8,020	1.35				
265	2400	0.847			16,600	3.10	15,100	2.9	13,400	2.60	11,400	2.25	8,720	1.75		
287	2600	0.994			18,600	4.05	17,100	3.8	15,600	3.55	14,000	3.2	12,100	2.86	9,450	2.25
309	2800	1.15					19,100	4.9	17,700	4.6	16,300	4.3	14,700	3.95	12,900	3.50
332	3000	1.32					21,000	6.1	19,700	5.8	18,400	5.5	17,100	5.2	15,600	4.85
354	3200	1.51					22,800	7.6	21,700	7.2	20,600	7.0	19,400	6.6	18,000	6.3
376	3400	1.70							23,700	8.9	22,600	8.5	21,400	8.2	20,200	7.8
398	3600	1.91							25,500	11	24,400	10.5	23,400	10	22,300	9.6
420	3800	2.13									26,400	12.5	25,400	12	24,400	11.5
442	4000	2.35									28,300	14.5	27,400	14	26,400	14.0
464	4200	2.59											29,200	17	28,300	16.5
486	4400	2.84													30,300	19
508	4600	3.11													32,200	22
530	4800	3.39													34,100	26

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
309	2800	1.15	10,600	2.9												
332	3000	1.32	14,000	4.3												
354	3200	1.51	16,600	5.8	13,200	4.7										
376	3400	1.70	19,000	7.4	16,300	6.5	12,300	4.95								
398	3600	1.91	21,200	9.3	18,900	8.3	16,000	7.2								
420	3800	2.13	23,400	11.5	21,300	10.5	18,900	9.3	15,900	8.0						
442	4000	2.35	25,400	13.5	23,100	12.5	21,300	11.5	18,900	10.5	15,700	8.8				
464	4200	2.59	27,400	16.0	25,700	15.0	23,600	14	21,400	13.0	19,100	11.5				
486	4400	2.84	29,400	18.5	27,700	17.5	26,000	17	24,000	15.5	21,800	14.5	16,000	11.0		
508	4600	3.11	31,400	21.5	29,800	20.5	28,100	20	26,200	19	24,400	17.5	19,800	14.5		
530	4800	3.39	33,300	25	31,700	24	30,200	23	28,500	22	26,800	21.0	22,800	18.0	17,200	15.0
552	5000	3.67	35,200	29	33,600	27	32,200	26	30,700	26	29,000	24.5	25,500	21.5	21,100	18.5
580	5250	4.05			36,000	32	34,700	31	33,300	30	31,800	29	28,600	27	24,900	23.5
608	5500	4.45			38,400	38	37,100	37	35,800	36	34,400	35	31,400	32	28,200	29
636	5750	4.85			40,800	44	39,500	43	38,300	41	36,900	40	34,100	38	31,200	35
663	6000	5.29					42,000	49	40,600	48	39,400	47	36,800	44	34,200	42
691	6250	5.75					44,300	56	43,000	54	41,900	54	39,500	52	37,000	49
718	6500	6.20							45,500	62	44,200	60	41,900	58	39,700	56
746	6750	6.70							47,800	70	46,700	70	44,400	66	42,300	64
774	7000	7.20									49,100	78	47,000	76	44,900	72
830	7500	8.26											51,700	94	49,800	92
885	8000	9.4											56,500	115	54,700	115
938	8500	10.6													59,400	140
996	9000	11.9													64,200	170

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
580	5250	4.05	20,000	19.5												
608	5500	4.45	24,500	26	18,200	21										
636	5750	4.85	28,000	32	24,000	27										
663	6000	5.29	31,200	38	27,900	34										
691	6250	5.75	34,200	45	31,200	42	23,500	32								
718	6500	6.20	37,100	52	34,400	49	28,000	41								
746	6750	6.70	39,900	62	37,400	58	31,800	49	23,900	38						
774	7000	7.20	42,500	70	40,300	66	35,100	58	28,600	48						
830	7500	8.26	47,600	88	45,800	86	41,200	78	36,000	70	30,000	58				
885	8000	9.40	52,700	110	50,900	110	46,900	100	42,600	92	37,700	82	31,500	70		
938	8500	10.60	57,600	135	55,800	130	52,200	125	48,400	120	44,100	110	39,600	98	33,600	84
996	9000	11.90	62,500	165	60,700	160	57,400	155	54,000	145	50,400	140	46,300	130	41,800	115
1050	9500	13.28	67,300	195	65,600	190	62,500	185	59,200	175	56,000	170	52,400	160	48,400	150
1105	10000	14.7			70,400	230	67,400	220	64,300	210	61,400	205	58,100	195	54,900	185

Double Inlet

No. 9 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
95	1000	0.147	5,350	0.185												
114	1200	0.212	9,050	0.44												
133	1400	0.288	12,000	0.78	7,140	0.49										
152	1600	0.376	14,700	1.2	11,200	0.98										
171	1800	0.476	17,300	1.8	14,400	1.55	10,800	1.20								
190	2000	0.588			17,200	2.30	14,400	1.95	10,700	1.50						
208	2200	0.711			19,900	3.15	17,500	2.85	14,800	2.45	10,900	1.85				
228	2400	0.847			22,500	4.2	20,400	3.9	18,100	3.55	15,400	3.10	11,800	2.35		
246	2600	0.994			25,100	5.5	23,100	5.2	21,100	4.8	18,900	4.35	16,300	3.8	12,800	3.05
265	2800	1.15					25,800	6.6	24,000	6.2	22,000	5.8	19,900	5.3	17,500	4.7
284	3000	1.32					28,400	8.3	26,700	7.9	24,900	7.5	23,100	7.0	21,100	6.6
303	3200	1.51					30,900	10.5	29,400	9.8	27,800	9.4	26,200	9.0	24,400	8.5
322	3400	1.70							32,000	12.0	30,500	11.5	28,900	11.0	27,300	10.5
341	3600	1.91							34,500	14.5	33,000	14	31,700	13.5	30,200	13.0
360	3800	2.13									35,700	17	34,300	16.0	33,000	15.5
379	4000	2.35									38,300	20	37,000	19.5	35,700	18.5
398	4200	2.59											39,500	23	38,300	22
417	4400	2.84													41,000	26
436	4600	3.11													43,500	30
455	4800	3.39													46,100	35

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
265	2800	1.15	14,300	3.9												
284	3000	1.32	18,900	5.8												
303	3200	1.51	22,400	7.8	17,900	6.4										
322	3400	1.70	25,700	10.0	22,000	8.7	16,600	6.7								
341	3600	1.91	28,700	12.5	25,500	11.5	21,600	9.7								
360	3800	2.13	31,600	15.0	28,800	14.0	25,500	12.5	21,500	11.0						
379	4000	2.35	34,400	18.0	31,700	17.0	28,800	15.5	25,500	14.0	21,300	12.0				
398	4200	2.59	37,100	21.5	34,700	20.5	32,000	19	29,000	17.5	25,800	15.5				
417	4400	2.84	39,800	25	37,500	24	35,100	23	32,400	21.5	29,500	19.5	21,700	14.5		
436	4600	3.11	42,500	29	40,300	28	38,000	27	35,500	25	33,000	24	26,800	19.5		
455	4800	3.39	45,000	34	42,900	32	40,800	31	38,500	30	36,200	28	30,800	24.5	23,200	20
474	5000	3.67	47,600	39	45,500	37	43,500	36	41,500	35	39,300	33	34,500	29	28,600	25
498	5250	4.05			48,800	44	46,900	42	45,000	41	43,000	40	38,700	36	33,700	32
522	5500	4.45			52,000	52	50,200	50	48,400	48	46,500	47	42,500	44	38,100	39
545	5750	4.85			55,200	60	53,500	58	51,800	56	49,900	54	46,100	52	42,200	47
569	6000	5.29					56,800	66	55,000	64	53,300	64	49,900	60	46,200	56
593	6250	5.75					59,900	76	58,200	74	56,700	72	53,500	70	50,000	66
616	6500	6.20							61,500	84	59,800	82	56,700	78	53,700	76
640	6750	6.70							64,600	96	63,200	94	60,000	90	57,200	86
663	7000	7.20									66,500	105	63,600	100	60,700	98
710	7500	8.26											70,000	130	67,400	125
758	8000	9.40											76,500	160	74,000	155
806	8500	10.6													80,300	190
852	9000	11.9													86,900	230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
498	5250	4.05	27,100	26												
522	5500	4.45	33,100	35	24,600	29										
545	5750	4.85	37,800	43	32,400	37										
569	6000	5.29	42,200	52	37,700	47										
593	6250	5.75	46,300	62	42,200	56	31,800	43								
616	6500	6.20	50,100	72	46,500	66	37,800	56								
640	6750	6.70	54,000	82	50,600	78	43,000	66	32,300	52						
663	7000	7.20	57,500	94	54,500	90	47,500	80	38,700	66						
710	7500	8.26	64,500	120	62,000	115	55,700	105	48,600	94	40,500	80				
758	8000	9.40	71,400	150	68,900	145	63,400	135	57,600	125	51,000	110	42,600	94		
806	8500	10.60	78,000	185	75,500	180	70,600	170	65,500	160	59,700	150	53,500	135	45,500	115
852	9000	11.90	84,600	225	82,100	215	77,600	210	73,000	200	68,100	185	62,600	175	56,500	155
900	9500	13.28	91,000	265	88,700	260	84,500	250	80,100	240	75,700	230	70,900	215	65,500	200
950	10000	14.70			95,200	310	91,100	300	87,000	285	83,000	280	78,600	265	74,100	250

Double Inlet

No. 10 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
83	1000	0.147	7,020	0.245												
100	1200	0.212	11,900	0.58												
116	1400	0.288	15,800	1.0	9,350	0.64										
133	1600	0.376	19,300	1.6	14,700	1.30										
149	1800	0.476	22,700	2.4	18,900	2.05	14,200	1.60								
166	2000	0.588			22,600	3.0	18,900	2.55	14,000	1.95						
183	2200	0.711			26,200	4.1	23,000	3.75	19,400	3.20	11,200	2.4				
199	2400	0.847			29,600	5.5	26,800	5.1	23,800	4.65	20,200	4.0	15,500	3.1		
216	2600	0.994			33,000	7.2	30,400	6.8	27,700	6.3	24,800	5.7	21,500	5.0	16,800	4.0
232	2800	1.15					33,900	8.7	31,500	8.2	28,900	7.7	26,200	7.0	22,900	6.2
249	3000	1.32					37,300	11.0	35,000	10.5	32,700	9.8	30,400	9.2	27,700	8.6
266	3200	1.51					40,600	13.5	38,600	13	36,500	12.5	34,400	12.0	32,000	11.0
282	3400	1.70							42,000	16	40,000	15.0	38,000	14.5	35,800	14.0
299	3600	1.91							45,300	19	43,300	18.5	41,600	17.5	39,700	17.0
315	3800	2.13									46,900	22	45,000	21.5	43,300	20.5
332	4000	2.35									50,300	26	48,600	25	46,900	24.5
349	4200	2.59											51,900	30	50,300	29
365	4400	2.84													53,800	34
382	4600	3.11													57,100	39
399	4800	3.39													60,500	45

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
232	2800	1.15	18,800	5.1												
219	3000	4.32	24,800	7.7												
266	3200	1.51	29,400	10.5	23,400	8.3										
282	3400	1.70	33,700	13.0	28,900	11.5	21,800	8.8								
299	3600	1.91	37,700	16.5	33,500	15.0	28,400	12.5								
315	3800	2.13	41,500	20	37,800	18.5	33,500	16.5	28,200	14.0						
332	4000	2.35	45,100	21	41,600	22.5	37,800	20.5	33,500	18.5	28,000	15.5				
349	4200	2.59	48,600	28	45,600	27	42,000	25	38,000	23	33,800	20.5				
365	4400	2.84	52,200	33	49,200	31	46,100	30	42,500	28	38,700	26	28,500	19		
382	4600	3.11	55,800	38	52,900	37	49,900	35	46,600	33	43,300	31	35,200	26		
399	4800	3.39	59,000	41	56,200	42	53,500	41	50,500	39	47,500	37	40,500	32	30,400	26
415	5000	3.67	62,500	50	59,600	49	57,100	47	54,500	45	51,500	43	45,300	38	37,500	33
436	5250	4.05			64,000	58	61,500	56	59,000	54	56,500	52	50,800	47	44,200	42
456	5500	4.45			68,200	68	66,000	66	63,500	64	61,000	62	55,800	58	50,000	52
477	5750	4.85			72,500	78	70,100	76	68,000	74	65,500	72	60,500	68	55,500	62
498	6000	5.29					74,500	88	72,100	84	69,900	82	65,500	78	60,600	74
519	6250	5.75					78,500	100	76,500	98	74,500	96	70,200	90	65,600	86
540	6500	6.20							80,700	110	78,500	110	74,500	105	70,500	100
560	6750	6.70							84,800	125	83,000	125	78,700	120	75,100	115
581	7000	7.20									87,200	140	83,500	135	79,700	130
622	7500	8.26											91,900	165	88,400	165
664	8000	9.4											100,000	210	97,200	200
705	8500	10.6													105,000	245
746	9000	11.9													114,000	300

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
436	5250	4.05	35,600	34												
456	5500	4.45	43,500	46	32,300	37										
477	5750	4.85	49,600	56	42,500	49										
498	6000	5.29	55,500	68	49,500	62										
519	6250	5.75	60,700	80	55,500	74	41,700	56								
540	6500	6.20	65,800	91	61,000	88	49,600	72								
560	6750	6.70	70,900	110	66,500	100	56,500	88	42,400	68						
581	7000	7.20	75,500	125	71,500	120	62,400	105	50,800	86						
622	7500	8.26	84,600	155	81,400	155	73,100	140	64,000	125	53,100	105				
664	8000	9.40	93,600	195	90,400	190	83,100	180	75,600	165	67,000	145	56,000	125		
705	8500	10.60	102,000	240	99,000	235	92,600	220	86,000	210	78,500	195	70,300	175	59,700	150
746	9000	11.90	111,000	295	108,000	285	102,000	270	95,900	260	89,500	245	82,200	225	74,100	205
788	9500	13.28	119,000	350	116,000	340	111,000	330	105,000	315	99,400	300	93,000	285	86,000	265
830	10000	14.7			125,000	405	120,000	390	114,000	375	109,000	365	103,000	350	97,300	330

Double Inlet

No. 11 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
73	1000	0.147	8,820	0.305												
88	1200	0.212	14,900	0.73												
103	1400	0.288	19,800	1.3	11,800	0.80										
118	1600	0.376	21,200	2	18,500	1.60										
132	1800	0.476	28,500	3	23,700	2.60	17,800	2.00								
147	2000	0.588			28,400	3.75	23,800	3.25	17,600	2.45						
162	2200	0.711			32,900	5.2	28,900	4.7	24,400	4.05	17,900	3.05				
177	2400	0.817			37,100	7.0	33,700	6.4	29,900	5.8	25,400	5.0	19,500	3.85		
191	2600	0.994			41,400	9.1	38,200	8.5	34,800	7.9	31,200	7.2	27,000	6.3	21,100	5.0
206	2800	1.15					42,600	11.0	39,600	10.5	36,300	9.6	32,800	8.8	28,800	7.8
221	3000	1.32					46,900	13.5	41,000	13	41,100	12.5	38,200	11.5	34,800	11.0
235	3200	1.51					51,000	17	48,500	16	45,900	15.5	43,200	15.0	40,200	14.0
250	3400	1.70							52,800	20	50,300	19	47,600	18.5	45,000	17.5
265	3600	1.91							57,000	21	54,500	23	52,300	22.5	49,800	21.5
279	3800	2.13									58,900	28	56,600	27	54,500	26
294	4000	2.35									63,200	33	61,000	32	58,900	31
309	4200	2.59											65,100	37	63,100	36
324	4400	2.84													67,600	43
338	4600	3.11													71,800	49
353	4800	3.39													76,100	58

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
206	2800	1.15	23,600	6.5												
221	3000	1.32	31,100	9.6												
235	3200	1.51	37,000	13.0	29,500	10.5										
250	3400	1.70	42,400	16.5	36,300	14.5	27,400	11								
265	3600	1.91	47,300	20.5	42,000	18.5	35,600	16								
279	3800	2.13	52,100	25	47,500	23	42,000	21	35,400	18						
294	4000	2.35	56,700	30	52,300	28	47,500	26	42,100	23	35,100	19.5				
309	4200	2.59	61,100	35	57,200	34	52,800	32	47,800	29	42,600	26				
321	4400	2.84	65,600	41	61,900	39	57,900	38	53,500	35	48,600	32	35,800	24		
338	4600	3.11	70,000	48	66,400	46	62,700	44	58,600	42	51,500	39	44,200	32		
353	4800	3.39	74,200	56	70,700	54	67,300	52	63,500	49	59,700	47	50,800	40	38,300	33
368	5000	3.67	78,500	64	75,000	62	71,700	58	68,500	58	64,900	54	57,000	48	47,100	41
386	5250	4.05			80,500	72	77,300	70	74,200	68	71,000	66	63,800	60	55,600	52
401	5500	4.45			85,700	84	82,800	82	79,800	80	76,600	78	70,100	72	62,900	66
423	5750	4.85			91,000	98	88,200	94	85,400	92	82,200	90	76,000	84	69,600	78
441	6000	5.29					93,600	110	90,700	105	87,900	105	82,300	98	76,200	92
459	6250	5.75					98,700	125	96,000	120	93,500	120	88,300	115	82,500	110
478	6500	6.20							101,000	140	98,600	135	93,500	130	88,600	125
496	6750	6.70							107,000	155	104,000	155	99,000	150	94,400	145
514	7000	7.20									110,000	175	105,000	170	100,000	160
550	7500	8.26											115,000	210	111,000	250
587	8000	9.4											126,000	260	122,000	255
624	8500	10.6													132,000	310
660	9000	11.9													143,000	375

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
386	5250	4.05	44,700	43												
404	5500	4.45	54,600	58	40,600	47										
423	5750	4.85	62,400	70	53,500	62										
441	6000	5.29	69,600	86	62,200	76										
459	6250	5.75	76,300	100	69,600	92	52,500	72								
478	6500	6.20	82,600	126	76,700	110	62,400	92								
496	6750	6.70	89,100	135	83,500	130	71,000	110	53,300	84						
514	7000	7.20	91,900	155	89,900	150	78,400	130	63,800	105						
550	7500	8.26	106,000	200	102,000	190	91,900	175	80,300	155	66,800	130				
587	8000	9.40	118,000	245	111,000	240	105,000	225	95,000	205	84,100	185	70,300	155		
624	8500	10.60	129,000	300	125,000	295	117,000	280	108,000	265	98,500	245	88,300	220	75,000	190
660	9000	11.90	140,000	370	135,000	360	128,000	340	120,000	325	112,000	310	103,000	285	93,200	260
697	9500	13.28	150,000	410	146,000	430	139,000	415	132,000	395	125,000	380	117,000	360	108,000	335
733	10000	14.7			157,000	510	150,000	490	144,000	470	137,000	460	130,000	435	122,000	415

Double Inlet

No. 12 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
67	1000	0.147	40,900	0.38												
80	1200	0.212	18,500	0.90												
93	1400	0.288	24,500	1.6	14,500	1.00										
106	1600	0.376	30,000	2.5	22,800	2.00										
120	1800	0.476	35,200	3.7	39,300	3.20	22,000	2.45								
133	2000	0.588			35,100	4.65	29,400	4.0	21,700	3.0						
146	2200	0.711			40,600	6.1	35,700	5.8	30,100	5.0	22,100	3.75				
159	2400	0.847			45,900	8.6	41,600	7.9	36,900	7.2	31,400	6.2	21,100	4.8		
173	2600	0.994			51,200	11	47,100	10.5	43,000	9.8	38,600	8.8	33,400	7.8	26,100	6.2
186	2800	1.15					52,600	13.5	49,000	12.5	41,900	12.0	40,600	11.0	35,600	9.6
199	3000	1.32					57,900	17	54,500	16.0	50,800	15.5	47,100	14.5	43,000	13.5
212	3200	1.51					63,100	21	60,000	20.0	56,700	19.0	53,500	18.5	49,800	17.5
226	3400	1.70							65,200	24.5	62,300	23.5	59,000	22.5	55,600	21.5
239	3600	1.91							70,400	30	67,400	29	64,630	28	61,600	26
252	3800	2.13									72,900	34	70,000	33	67,300	32
265	4000	2.35									78,100	41	75,500	39	72,800	38
279	4200	2.59											80,500	46	78,100	45
299	4400	2.84													83,600	52
305	4600	3.11													88,700	60
318	4800	3.39													94,100	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
186	2800	1.15	29,200	8.0												
199	3000	1.32	38,500	12.0												
212	3200	1.51	45,700	16.0	36,500	13										
226	3400	1.70	42,500	20.5	41,900	18	33,900	13.5								
239	3600	1.91	58,500	26	52,000	23	44,000	20								
252	3800	2.13	64,500	31	58,800	29	52,000	26	43,900	22						
265	4000	2.35	70,100	37	64,600	35	58,800	32	52,000	29	43,500	24				
279	4200	2.59	75,600	41	70,800	42	65,300	39	59,100	36	52,600	32				
299	4400	2.84	81,200	52	76,500	49	71,600	47	66,100	43	60,100	40	44,200	30		
305	4600	3.11	86,600	60	82,200	58	77,500	54	72,500	52	67,300	48	54,600	40		
318	4800	3.39	91,800	68	87,500	66	83,100	64	78,500	60	73,900	58	62,800	50	47,300	41
332	5000	3.67	97,200	78	92,900	76	88,800	72	84,600	70	80,100	68	70,400	60	58,400	50
348	5250	4.05			99,500	90	95,500	86	91,900	84	87,700	80	79,000	74	68,800	66
365	5500	4.45			106,000	105	102,000	100	98,600	98	95,000	96	86,700	88	77,700	80
381	5750	4.85			113,000	120	109,000	115	108,000	115	102,000	110	94,200	105	86,100	96
398	6000	5.29					116,000	135	112,000	130	109,000	130	102,000	120	94,100	115
414	6250	5.75					122,000	155	119,000	150	116,000	150	109,000	140	102,000	135
431	6500	6.20							125,000	170	122,000	165	116,000	160	110,000	155
448	6750	6.70							132,000	195	129,000	190	122,000	185	117,000	175
464	7000	7.20									136,000	215	130,000	210	124,000	200
497	7500	8.26											143,000	260	137,000	255
531	8000	9.4											156,000	325	151,000	315
564	8500	10.6													164,000	385
597	9000	11.9													177,000	465

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
348	5250	4.05	55,200	51												
365	5500	4.45	67,500	70	50,100	58										
381	5750	4.85	77,100	88	66,000	76										
398	6000	5.29	86,000	105	76,900	96										
414	6250	5.75	94,500	125	86,000	115	61,900	88								
431	6500	6.20	102,000	145	94,800	135	77,100	115								
448	6750	6.70	110,000	170	103,000	160	87,700	135	65,900	105						
464	7000	7.20	117,000	195	111,000	185	96,800	160	79,000	135						
497	7500	8.26	132,000	245	127,000	235	114,000	215	99,100	190	82,600	160				
531	8000	9.40	145,000	305	140,000	295	120,000	280	118,000	255	101,000	230	87,000	195		
564	8500	10.60	159,000	375	154,000	365	144,000	345	134,000	325	122,000	305	109,000	270	92,800	235
597	9000	11.90	173,000	455	168,000	410	158,000	425	149,000	405	139,000	380	128,000	355	115,000	320
630	9500	13.28	186,000	545	181,000	530	172,000	510	163,000	490	154,000	470	145,000	440	134,000	410
664	10000	14.7			194,000	630	186,000	610	177,000	585	169,000	565	160,000	540	151,000	510

Double Inlet **Single Width**

No. 13 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
60	1000	0.147	13,200	0.46												
72	1200	0.212	22,400	1.10												
84	1400	0.288	29,700	1.95	17,700	1.2										
97	1600	0.376	36,300	3.05	27,700	2.4										
109	1800	0.476	42,700	4.5	35,600	3.9	26,700	3.00								
121	2000	0.588			42,600	5.6	35,600	4.85	26,400	3.7						
133	2200	0.711			49,200	7.8	43,400	7.1	36,600	6.1	26,800	4.5				
145	2400	0.847			55,600	10.5	50,500	9.6	44,800	8.7	38,200	7.5	29,200	5.8		
157	2600	0.994			62,100	13.5	57,100	13.0	52,200	12.0	46,800	10.5	40,500	9.4	31,700	7.5
169	2800	1.15					63,800	16.5	59,400	15.5	54,500	14.5	49,200	13.0	43,100	11.5
181	3000	1.32					70,300	20.5	66,100	19.5	61,600	18.5	57,100	17.5	52,200	16.5
193	3200	1.51					76,500	25	72,800	24	68,800	23	64,900	22	60,400	21
205	3400	1.70							79,100	30	75,500	29	71,500	27	67,500	26
217	3600	1.91							85,400	36	81,600	35	78,500	33	74,700	32
229	3800	2.13									88,300	42	84,900	40	81,600	39
241	4000	2.35									94,800	49	91,600	48	88,400	46
253	4200	2.59											97,700	56	94,800	54
265	4400	2.84													102,000	64
277	4600	3.11													108,000	74
289	4800	3.39													111,000	86

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
169	2800	1.15	35,400	9.7												
181	3000	1.32	46,600	14.5												
193	3200	1.51	55,500	19.5	44,300	15.5										
205	3400	1.70	63,600	25	54,500	21.5	41,100	16.5								
217	3600	1.91	71,000	31	63,100	28	53,500	24								
229	3800	2.13	78,200	38	71,200	35	63,100	31	53,200	26						
241	4000	2.35	85,100	45	78,500	42	71,300	39	63,100	35	52,700	29				
253	4200	2.59	91,800	54	85,900	50	79,200	47	71,700	43	63,900	39				
265	4400	2.84	98,500	62	92,800	60	86,900	56	80,200	52	73,000	48	53,700	36		
277	4600	3.11	105,000	72	99,700	70	94,000	66	87,900	62	81,600	58	66,300	49		
289	4800	3.39	111,000	84	106,000	80	101,000	76	95,300	74	89,600	70	76,200	60	57,400	50
301	5000	3.67	118,000	96	113,000	92	108,000	88	103,000	86	97,400	82	85,400	72	70,800	62
316	5250	4.05			121,000	110	116,000	105	111,000	100	106,000	98	95,800	90	83,400	80
332	5500	4.45			129,000	125	124,000	125	120,000	120	115,000	115	105,000	110	94,400	98
347	5750	4.85			137,000	145	132,000	140	128,000	140	123,000	135	114,000	125	105,000	115
362	6000	5.29					141,000	165	136,000	160	132,000	155	123,000	150	114,000	140
377	6250	5.75					148,000	190	144,000	185	140,000	180	132,000	170	124,000	165
392	6500	6.20							152,000	210	148,000	205	140,000	195	133,000	185
407	6750	6.70							160,000	235	156,000	230	149,000	220	142,000	215
422	7000	7.20									165,000	260	158,000	250	150,000	245
452	7500	8.26											173,000	315	167,000	310
482	8000	9.4											189,000	390	183,000	380
512	8500	10.6													199,000	465
542	9000	11.9													215,000	565

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
316	5250	4.05	67,000	64												
332	5500	4.45	81,900	86	60,900	70										
347	5750	4.85	93,500	105	80,100	92										
362	6000	5.29	104,000	130	93,300	115										
377	6250	5.75	114,000	150	105,000	140	78,600	105								
392	6500	6.20	124,000	175	115,000	165	93,500	135								
407	6750	6.70	134,000	205	125,000	195	106,000	165	80,000	125						
422	7000	7.20	142,000	235	135,000	220	118,000	195	95,700	160						
452	7500	8.26	160,000	295	153,000	290	138,000	260	120,000	235	100,000	195				
482	8000	9.40	177,000	370	170,000	360	157,000	340	143,000	310	126,000	275	106,000	235		
512	8500	10.60	193,000	455	187,000	445	175,000	420	162,000	395	148,000	370	132,000	330	113,000	280
542	9000	11.90	209,000	550	203,000	535	192,000	515	181,000	490	169,000	460	155,000	430	140,000	390
572	9500	13.28	225,000	660	219,000	645	209,000	620	198,000	595	187,000	570	175,000	535	162,000	500
602	10000	14.7			236,000	765	226,000	735	215,000	710	205,000	690	195,000	655	183,000	620

Double Inlet

No. 14 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1000	0.147	15,800	0.55												
67	1200	0.212	26,800	1.3												
78	1400	0.288	35,400	2.3	21,100	1.45										
89	1600	0.376	43,400	3.6	33,100	2.90										
100	1800	0.476	51,000	5.4	42,500	4.65	31,900	3.55								
111	2000	0.588			50,900	6.7	42,500	5.8	31,500	4.4						
122	2200	0.711			58,900	9.3	51,800	8.4	43,600	7.2	32,000	5.4				
133	2400	0.847			66,500	12.5	60,300	11.5	53,500	10.5	45,500	9	34,900	6.9		
144	2600	0.991			74,100	16.5	68,300	15.0	62,400	14.0	55,900	13	48,300	11.0	37,800	9.0
155	2800	1.15					76,200	19.5	70,900	18.5	65,000	17	58,800	15.5	51,500	14.0
166	3000	1.32					84,000	24.5	78,900	23.5	73,500	22	68,200	21	62,300	19.5
177	3200	1.51					91,300	30	86,800	29	82,000	28	77,400	26	72,000	25
188	3400	1.70							94,500	36	90,000	34	85,400	33	80,600	31
199	3600	1.91							102,000	43	97,500	41	93,500	40	89,300	38
210	3800	2.13									105,000	50	101,000	48	97,500	47
221	4000	2.35									113,000	58	109,000	56	105,000	56
232	4200	2.59											117,000	68	113,000	66
243	4400	2.84													121,000	76
254	4600	3.11													129,000	88
266	4800	3.39													136,000	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. incl.		Static Pressure 3" Water 1.73 ozs. per sq. inch	
155	2800	1.15	42,200	11.5												
166	3000	1.32	55,700	17												
177	3200	1.51	66,200	23	52,800	19										
188	3400	1.70	76,000	30	65,000	26	49,000	20								
199	3600	1.91	84,800	37	75,300	33	63,800	29								
210	3800	2.13	93,300	45	85,000	42	75,400	37	63,500	32						
221	4000	2.35	102,000	51	93,600	50	85,000	46	75,400	41	63,000	35				
232	4200	2.59	110,000	64	103,000	60	94,500	56	85,600	52	76,200	46				
243	4400	2.84	118,000	74	111,000	70	104,000	68	95,700	62	87,100	58	64,100	43		
254	4600	3.11	126,000	86	119,000	82	112,000	80	105,000	76	97,500	70	79,200	58		
266	4800	3.39	133,000	100	127,000	96	120,000	92	114,000	88	107,000	84	91,000	72	68,500	60
277	5000	3.67	141,000	115	135,000	110	129,000	105	123,000	100	116,000	98	102,000	86	84,500	74
290	5250	4.05			144,000	130	139,000	125	133,000	120	127,000	115	114,000	105	99,500	94
304	5500	4.45			154,000	150	148,000	145	143,000	145	137,000	140	126,000	130	113,000	115
318	5750	4.85			163,000	175	158,000	170	153,000	165	147,000	160	136,000	150	125,000	140
332	6000	5.29					168,000	195	163,000	190	157,000	185	147,000	175	137,000	165
346	6250	5.75					177,000	225	172,000	220	168,000	215	158,000	205	148,000	195
359	6500	6.20							182,000	250	177,000	240	168,000	235	159,000	225
373	6750	6.70							191,000	280	187,000	275	177,000	265	169,000	255
387	7000	7.20									197,000	310	188,000	300	179,000	290
414	7500	8.26											207,000	375	199,000	365
442	8000	9.4											226,000	470	219,000	455
470	8500	10.6													237,000	555
497	9000	11.9													257,000	675

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
290	5250	4.05	80,000	78												
304	5500	4.45	97,800	105	72,600	84										
318	5750	4.85	112,000	125	95,700	110										
332	6000	5.29	125,000	155	111,000	140										
346	6250	5.75	137,000	180	125,000	165	94,000	130								
359	6500	6.20	148,000	210	137,000	195	112,000	165								
373	6750	6.70	160,000	215	150,000	230	127,000	195	95,500	150						
387	7000	7.20	170,000	280	161,000	265	140,000	235	114,000	190						
414	7500	8.26	191,000	355	183,000	345	165,000	315	144,000	280	120,000	235				
442	8000	9.40	211,000	440	204,000	430	187,000	405	170,000	370	151,000	330	126,000	280		
470	8500	10.60	230,000	510	223,000	530	209,000	500	193,000	475	176,000	440	158,000	390	134,000	335
497	9000	11.90	250,000	660	242,000	640	229,000	615	216,000	585	201,000	550	185,000	510	167,000	465
525	9500	13.28	269,000	790	262,000	770	250,000	740	237,000	710	224,000	680	209,000	640	193,000	595
552	10000	14.7			281,000	915	269,000	880	257,000	845	245,000	820	232,000	785	219,000	740

Double Inlet

No. 15 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
52	1000	0.147	18,500	0.65												
62	1200	0.212	31,400	1.55												
72	1400	0.288	41,600	2.70	24,800	1.7										
82	1600	0.376	50,800	4.25	38,800	3.4										
92	1800	0.476	59,900	6.3	49,800	5.4	37,400	4.2								
102	2000	0.588			59,700	7.9	49,900	6.8	36,900	5.1						
113	2200	0.711			69,000	11.0	60,700	9.9	51,200	8.5	37,600	6.4				
123	2400	0.847			78,000	14.5	70,700	13.5	62,700	12.0	53,500	10.5	40,900	8.1		
133	2600	0.994			87,000	19	80,400	18	73,000	16.5	65,600	15	56,600	13.0	44,100	10.5
143	2800	1.15					89,400	23	83,100	21.5	76,200	20	69,000	18.5	60,500	16.5
153	3000	1.32					98,500	29	92,500	27	86,300	26	80,000	24.5	73,100	23
163	3200	1.51					107,000	36	102,000	34	96,400	33	90,800	31	84,500	29
174	3400	1.70							111,000	42	106,000	40	100,000	38	94,600	37
184	3600	1.91							120,000	50	114,000	48	110,000	47	105,000	45
194	3800	2.13									124,000	58	119,000	56	114,000	54
204	4000	2.35									133,000	68	128,000	66	124,000	64
215	4200	2.59											137,000	78	133,000	76
225	4400	2.84													142,000	90
235	4600	3.11													151,000	105
245	4800	3.39													160,000	120

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
143	2800	1.15	49,500	13.5												
153	3000	1.32	65,400	20												
163	3200	1.51	77,600	27	61,900	22										
174	3400	1.70	89,000	35	76,200	30	57,500	23								
184	3600	1.91	99,500	41	88,400	39	74,900	34								
194	3800	2.13	110,000	52	99,800	49	88,400	44	74,500	37						
204	4000	2.35	119,000	64	110,000	60	99,700	51	88,400	48	73,800	41				
215	4200	2.59	129,000	74	120,000	70	111,000	66	100,000	60	89,400	54				
225	4400	2.84	138,000	86	130,000	82	122,000	78	112,000	74	102,000	68	75,100	50		
235	4600	3.11	147,000	100	140,000	96	132,000	92	123,000	88	114,000	82	92,800	68		
245	4800	3.39	156,000	115	149,000	110	141,000	110	133,000	105	125,000	98	107,000	84	80,400	70
255	5000	3.67	165,000	135	158,000	130	151,000	125	144,000	120	136,000	115	120,000	100	99,100	86
268	5250	4.05			169,000	150	162,000	145	156,000	140	149,000	135	131,000	125	117,000	110
281	5500	4.45			180,000	180	174,000	170	168,000	170	161,000	160	147,000	150	132,000	135
294	5750	4.85			191,000	205	185,000	200	179,000	195	173,000	190	160,000	175	146,000	165
306	6000	5.29					197,000	230	191,000	225	185,000	220	173,000	205	160,000	195
319	6250	5.75					207,000	265	202,000	255	197,000	250	185,000	240	173,000	230
332	6500	6.20							213,000	290	207,000	285	197,000	275	186,000	260
345	6750	6.70							224,000	330	219,000	325	208,000	310	198,000	300
357	7000	7.20									230,000	365	220,000	350	210,000	340
382	7500	8.26											242,000	440	234,000	430
408	8000	9.4											265,000	550	256,000	535
433	8500	10.6													278,000	650
459	9000	11.9													310,000	790

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
268	5250	4.05	94,000	90												
281	5500	4.45	115,000	120	85,200	98										
294	5750	4.85	131,000	150	112,000	130										
306	6000	5.29	146,000	180	131,000	160										
319	6250	5.75	160,000	215	146,000	195	110,000	150								
332	6500	6.20	174,000	250	161,000	230	131,000	190								
345	6750	6.70	187,000	285	175,000	270	149,000	230	112,000	180						
357	7000	7.20	199,000	325	189,000	310	165,000	275	134,000	225						
382	7500	8.26	224,000	415	215,000	405	193,000	365	169,000	325	140,000	275				
408	8000	9.40	247,000	515	238,000	505	220,000	475	200,000	435	177,000	390	148,000	330		
433	8500	10.60	270,000	635	262,000	620	245,000	585	227,000	555	207,000	515	185,000	460	158,000	395
459	9000	11.90	293,000	775	284,000	750	269,000	720	253,000	690	236,000	645	217,000	600	196,000	515
485	9500	13.28	315,000	925	307,000	900	293,000	870	278,000	830	262,000	795	246,000	750	227,000	700
510	10000	14.7			330,000	1070	316,000	1030	302,000	990	288,000	965	272,000	920	257,000	870

Double Inlet **Single Width**

No. 16 Multivane Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
48	1000	0.147	21,400	0.75												
57	1200	0.212	36,200	1.75												
66	1400	0.288	48,000	3.1	28,600	1.95										
76	1600	0.376	58,800	4.9	41,900	3.9										
85	1800	0.476	69,100	7.3	57,500	6.3	43,200	4.85								
95	2000	0.588			69,000	9.1	57,600	7.9	42,700	5.9						
104	2200	0.711			79,800	12.5	70,200	11.5	59,400	9.8	43,500	7.4				
113	2400	0.847			90,000	17	81,700	15.5	72,500	14	61,800	12.0	47,300	9.4		
123	2600	0.994			101,000	22	92,500	20.5	84,500	19	75,800	17.5	65,500	15.0	51,300	12
133	2800	1.15					103,000	26	96,100	25	88,100	23.5	79,700	21.5	70,000	19
142	3000	1.32					114,000	33	107,000	32	99,800	30	92,600	28	84,500	26
152	3200	1.51					124,000	41	118,000	39	111,000	38	105,000	36	97,800	34
161	3400	1.70							128,000	48	122,000	46	116,000	44	109,000	42
170	3600	1.91							138,000	58	132,000	56	127,000	54	121,000	52
180	3800	2.13									143,000	68	137,000	64	132,000	64
189	4000	2.35									153,000	80	148,000	78	143,000	74
199	4200	2.59											158,000	90	153,000	88
208	4400	2.84													164,000	105
218	4600	3.11													171,000	120
227	4800	3.39													185,000	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs. per sq. inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
133	2800	1.15	57,300	15.5												
142	3000	1.32	75,500	23.5												
152	3200	1.51	89,700	31	71,500	25										
161	3400	1.70	103,000	40	88,100	35	66,500	27								
170	3600	1.91	115,000	50	102,000	45	86,500	39								
180	3800	2.13	127,000	60	115,000	56	102,000	50	86,100	43						
189	4000	2.35	138,000	72	127,000	68	115,000	62	102,000	56	85,300	47				
199	4200	2.59	149,000	86	139,000	82	128,000	76	116,000	70	103,000	62				
208	4400	2.84	160,000	100	150,000	96	141,000	92	130,000	86	118,000	78	87,000	58		
218	4600	3.11	170,000	115	161,000	110	152,000	105	142,000	100	132,000	96	107,000	78		
227	4800	3.39	180,000	135	172,000	130	163,000	125	154,000	120	145,000	115	123,000	98	93,000	80
237	5000	3.67	191,000	155	182,000	150	174,000	145	166,000	140	157,000	135	138,000	115	115,000	100
248	5250	4.05			195,000	175	188,000	170	180,000	165	172,000	160	155,000	145	135,000	130
260	5500	4.45			208,000	205	201,000	200	194,000	195	186,000	185	170,000	175	153,000	160
272	5750	4.85			221,000	235	214,000	230	208,000	225	200,000	220	185,000	205	169,000	190
284	6000	5.29					228,000	265	220,000	260	214,000	250	200,000	240	185,000	225
296	6250	5.75					240,000	305	233,000	300	227,000	290	214,000	280	200,000	265
308	6500	6.20							246,000	340	239,000	330	227,000	315	215,000	300
319	6750	6.70							259,000	380	253,000	375	240,000	360	229,000	345
331	7000	7.20									266,000	425	255,000	410	243,000	395
355	7500	8.26											280,000	510	270,000	500
378	8000	9.40											306,000	635	296,000	620
402	8500	10.6													322,000	750
426	9000	11.9													348,000	915

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
248	5250	4.05	109,000	105												
260	5500	4.45	133,000	140	98,500	115										
272	5750	4.85	151,000	170	130,000	150										
284	6000	5.29	169,000	205	151,000	185										
296	6250	5.75	185,000	245	169,000	225	127,000	175								
308	6500	6.20	201,000	285	186,000	265	151,000	220								
319	6750	6.70	216,000	330	203,000	310	172,000	265	129,000	205						
331	7000	7.20	230,000	380	218,000	360	190,000	320	155,000	260						
355	7500	8.26	258,000	480	248,000	465	223,000	425	195,000	375	162,000	320				
378	8000	9.40	286,000	600	276,000	585	254,000	545	231,000	505	204,000	450	171,000	380		
402	8500	10.60	312,000	735	302,000	715	283,000	680	262,000	640	239,000	595	214,000	530	182,000	455
426	9000	11.90	339,000	895	329,000	870	311,000	830	292,000	795	273,000	750	251,000	695	226,000	630
449	9500	13.28	364,000	1070	355,000	1040	338,000	1010	321,000	960	303,000	920	284,000	870	262,000	810
473	10000	14.70			382,000	1240	365,000	1190	349,000	1150	332,000	1110	315,000	1060	297,000	1010

Double Inlet **Single Width**

No. 17 Multivane Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
44	1000	0.147	24,700	0.86												
53	1200	0.212	41,700	2.05												
62	1400	0.288	55,300	3.6	32,900	2.25										
71	1600	0.376	67,600	5.6	51,600	4.5										
80	1800	0.476	79,600	8.1	66,200	7.2	49,800	5.6								
89	2000	0.588			79,500	10.5	66,400	9.0	49,100	6.8						
98	2200	0.711			91,700	14.5	80,700	13.0	68,100	11.5	50,000	8.5				
106	2400	0.847			104,000	19.5	94,000	18.0	83,500	16.5	71,000	14	54,400	11.0		
115	2600	0.994			116,000	25	106,000	23.5	97,200	22	87,100	20	75,300	17.5	59,000	14.0
124	2800	1.15					119,000	30	111,000	29	101,000	27	91,800	24.5	80,400	21.5
133	3000	1.32					131,000	38	123,000	36	115,000	34	106,000	32	97,300	30
142	3200	1.51					142,000	47	136,000	45	128,000	43	121,000	41	112,000	39
151	3400	1.70							148,000	56	141,000	54	133,000	52	126,000	49
159	3600	1.91							159,000	66	152,000	64	146,000	62	139,000	60
168	3800	2.13									164,000	78	158,000	74	152,000	72
177	4000	2.35									176,000	92	170,000	88	165,000	86
186	4200	2.59											182,000	105	177,000	100
195	4400	2.84													189,000	120
204	4600	3.11													200,000	140
213	4800	3.39													213,000	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
124	2800	1.15	65,900	18												
133	3000	1.32	86,900	27												
142	3200	1.51	103,000	36	82,300	29										
151	3400	1.70	118,000	46	101,000	40	76,500	31								
159	3600	1.91	132,000	58	118,000	52	99,500	45								
168	3800	2.13	146,000	70	133,000	64	118,000	58	99,000	50						
177	4000	2.35	158,000	84	146,000	78	133,000	72	118,000	64	98,000	51				
186	4200	2.59	171,000	100	160,000	94	147,000	88	134,000	80	119,000	72				
195	4400	2.84	183,000	115	173,000	110	162,000	105	149,000	98	136,000	90	100,000	68		
204	4600	3.11	196,000	135	186,000	130	175,000	125	164,000	115	152,000	110	123,000	90		
213	4800	3.39	208,000	155	197,000	150	188,000	145	177,000	135	167,000	130	142,000	110	107,000	92
221	5000	3.67	220,000	180	210,000	170	200,000	165	191,000	160	181,000	150	159,000	135	132,000	115
232	5250	4.05			225,000	200	216,000	195	207,000	190	198,000	185	178,000	165	155,000	150
244	5500	4.45			240,000	235	231,000	230	223,000	225	214,000	215	196,000	200	176,000	180
255	5750	4.85			254,000	270	247,000	265	239,000	260	230,000	250	212,000	235	195,000	220
266	6000	5.29					262,000	305	254,000	295	245,000	290	230,000	275	213,000	260
277	6250	5.75					276,000	350	268,000	340	261,000	335	246,000	320	230,000	305
288	6500	6.20							284,000	390	275,000	380	261,000	365	248,000	350
299	6750	6.70							298,000	440	291,000	430	276,000	415	264,000	400
310	7000	7.20									306,000	490	293,000	470	280,000	450
332	7500	8.26											322,000	590	310,000	575
354	8000	9.40											352,000	730	341,000	710
376	8500	10.6													370,000	865
398	9000	11.9													400,000	1050

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
232	5250	4.05	125,000	120												
244	5500	4.45	153,000	160	113,000	130										
255	5750	4.85	174,000	195	149,000	170										
266	6000	5.29	195,000	240	174,000	215										
277	6250	5.75	213,000	285	195,000	260	147,000	200								
288	6500	6.20	231,000	330	214,000	305	174,000	255								
299	6750	6.70	249,000	380	233,000	360	198,000	305	149,000	235						
310	7000	7.20	265,000	435	251,000	415	219,000	365	178,000	300						
332	7500	8.26	297,000	550	286,000	535	257,000	485	224,000	435	187,000	365				
354	8000	9.40	329,000	690	317,000	670	292,000	630	266,000	580	235,000	515	196,000	435		
376	8500	10.60	359,000	845	348,000	825	325,000	780	302,000	740	275,000	685	246,000	610	210,000	525
398	9000	11.90	390,000	1030	378,000	1000	358,000	955	336,000	915	314,000	860	289,000	795	260,000	725
420	9500	13.28	419,000	1230	409,000	1200	389,000	1160	369,000	1110	349,000	1060	327,000	1000	302,000	930
443	10000	14.70			439,000	1420	420,000	1370	400,000	1320	382,000	1280	362,000	1220	342,000	1160

Double Inlet **Single Width**

No. 18 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
42	1000	0.147	28,000	0.97												
50	1200	0.212	47,300	2.30												
58	1400	0.288	62,700	4.05	37,200	2.55										
66	1600	0.376	76,600	6.4	59,000	5.1										
75	1800	0.476	90,200	9.5	75,000	8.2	56,400	6.3								
83	2000	0.588			90,000	12.0	75,200	10.0	55,600	7.7						
91	2200	0.711			101,000	16.5	91,500	15.0	77,100	13.0	56,600	9.6				
100	2400	0.847			118,000	22	107,000	20.5	94,500	18.5	80,500	16.0	61,600	12.5		
108	2600	0.994			131,000	29	121,000	27	110,000	25	98,900	22.5	85,400	20	66,900	16.0
116	2800	1.15					135,000	34	125,000	33	115,000	30	104,000	28	91,100	24.5
124	3000	1.32					148,000	43	139,000	41	130,000	39	121,000	37	115,000	34
133	3200	1.51					161,000	54	153,000	52	145,000	49	137,000	47	128,000	44
141	3400	1.70							167,000	62	159,000	60	151,000	58	143,000	56
149	3600	1.91							180,000	76	172,000	72	166,000	70	158,000	68
158	3800	2.13									186,000	88	179,000	84	172,000	82
166	4000	2.35									200,000	105	193,000	100	187,000	98
174	4200	2.59											206,000	120	200,000	115
182	4400	2.84													214,000	135
191	4600	3.11													227,000	155
199	4800	3.39													241,000	180

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs per sq inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Wate. 1.73 ozs. per sq. inch	
116	2800	1.15	74,700	20.5												
124	3000	1.32	98,500	30												
133	3200	1.51	117,000	41	93,300	33										
141	3400	1.70	134,000	52	115,000	46	86,700	35								
149	3600	1.91	150,000	66	133,000	58	113,000	50								
158	3800	2.13	165,000	80	150,000	74	133,000	66	112,000	56						
166	4000	2.35	180,000	96	166,000	90	150,000	82	133,000	71	111,000	62				
174	4200	2.59	194,000	110	181,000	105	167,000	100	151,000	92	135,000	82				
182	4400	2.84	208,000	130	196,000	125	183,000	120	169,000	110	154,000	100	113,000	76		
191	4600	3.11	222,000	155	210,000	145	198,000	140	185,000	135	172,000	125	140,000	105		
199	4800	3.39	235,000	175	224,000	170	213,000	160	201,000	155	189,000	145	161,000	125	121,000	105
207	5000	3.67	249,000	200	238,000	195	227,000	185	217,000	180	205,000	175	180,000	155	149,000	135
218	5250	4.05			255,000	230	245,000	220	235,000	215	224,000	205	202,000	190	176,000	165
228	5500	4.45			272,000	270	262,000	260	253,000	250	243,000	245	222,000	225	199,000	205
239	5750	4.85			288,000	310	280,000	300	270,000	290	260,000	285	241,000	270	220,000	245
249	6000	5.29					297,000	345	287,000	335	278,000	330	260,000	310	242,000	295
259	6250	5.75					313,000	395	304,000	385	296,000	380	280,000	360	261,000	345
270	6500	6.20							321,000	440	312,000	430	296,000	410	281,000	395
280	6750	6.70							338,000	500	330,000	490	313,000	470	299,000	450
290	7000	7.20									347,000	555	332,000	530	317,000	515
311	7500	8.26											366,000	665	352,000	650
332	8000	9.40											400,000	830	386,000	805
352	8500	10.6													420,000	980
373	9000	11.9													454,000	1190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
218	5250	4.05	142,000	135												
228	5500	4.45	173,000	180	128,000	150										
239	5750	4.85	197,000	225	169,000	195										
249	6000	5.29	221,000	270	197,000	245										
259	6250	5.75	242,000	320	220,000	295	166,000	225								
270	6500	6.20	262,000	375	243,000	350	197,000	290								
280	6750	6.70	282,000	430	265,000	405	221,000	350	169,000	270						
290	7000	7.20	300,000	495	285,000	470	248,000	415	202,000	340						
311	7500	8.26	337,000	625	324,000	610	291,000	555	254,000	490	212,000	415				
332	8000	9.40	373,000	780	360,000	760	331,000	715	301,000	655	266,000	585	222,000	495		
352	8500	10.60	407,000	955	394,000	935	369,000	885	342,000	835	312,000	780	280,000	690	238,000	595
373	9000	11.90	442,000	1170	429,000	1130	405,000	1080	381,000	1040	356,000	975	327,000	905	295,000	820
394	9500	13.28	475,000	1390	464,000	1360	441,000	1310	419,000	1250	395,000	1200	370,000	1130	312,000	1060
415	10000	14.7			497,000	1610	476,000	1560	455,000	1490	434,000	1450	410,000	1380	387,000	1310

Double Inlet

No. 20 Multivane Fan—Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
37	1000	0.147	35,300	1.25												
41	1200	0.212	59,600	2.9												
52	1400	0.288	79,100	5.1	47,000	3.2										
59	1600	0.376	96,800	8.1	74,000	6.4										
66	1800	0.476	114,000	12	94,800	10.5	71,300	8.0								
74	2000	0.588			114,000	15.0	95,000	13	70,300	9.8						
81	2200	0.711			131,000	20.5	116,000	19	97,500	16.0	71,600	12				
89	2400	0.847			148,000	28	135,000	26	119,000	23.5	102,000	20	77,900	15.5		
96	2600	0.994			166,000	36	152,000	34	139,000	32	125,000	29	108,000	25	84,500	20
103	2800	1.15					170,000	41	158,000	41	145,000	39	131,000	35	115,000	31
111	3000	1.32					187,000	54	176,000	52	161,000	49	152,000	46	139,000	43
118	3200	1.51					201,000	68	191,000	64	181,000	62	173,000	60	161,000	56
125	3400	1.70							211,000	80	201,000	76	191,000	74	180,000	70
133	3600	1.91							228,000	96	218,000	92	209,000	90	199,000	86
140	3800	2.13									236,000	110	226,000	105	218,000	105
148	4000	2.35									253,000	130	244,000	125	236,000	125
155	4200	2.59											261,000	150	253,000	145
162	4400	2.84													271,000	170
170	4600	3.11													287,000	195
177	4800	3.39													304,000	230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
103	2800	1.15	91,400	26												
111	3000	1.32	124,000	38												
118	3200	1.51	148,000	52	118,000	42										
125	3400	1.70	170,000	66	145,000	58	110,000	44								
133	3600	1.91	189,000	82	168,000	74	143,000	64								
140	3800	2.13	209,000	100	190,000	92	168,000	84	142,000	72						
148	4000	2.35	227,000	120	209,000	115	190,000	105	168,000	92	141,000	78				
155	4200	2.59	245,000	140	229,000	135	211,000	125	191,000	115	170,000	105				
162	4400	2.84	263,000	165	248,000	160	232,000	150	214,000	140	195,000	130	143,000	96		
170	4600	3.11	280,000	195	266,000	185	251,000	175	234,000	170	218,000	155	177,000	130		
177	4800	3.39	297,000	225	283,000	215	269,000	205	254,000	195	239,000	185	203,000	160	153,000	130
184	5000	3.67	314,000	255	300,000	245	287,000	235	274,000	230	259,000	220	228,000	195	189,000	165
194	5250	4.05			322,000	290	309,000	280	297,000	270	284,000	260	256,000	240	222,000	210
203	5500	4.45			343,000	340	332,000	325	319,000	320	307,000	310	280,000	285	252,000	260
212	5750	4.85			364,000	390	353,000	380	342,000	370	329,000	360	305,000	340	279,000	310
221	6000	5.29					375,000	440	363,000	425	352,000	415	329,000	395	305,000	370
231	6250	5.75					395,000	500	384,000	490	374,000	480	353,000	455	330,000	435
240	6500	6.20							406,000	555	394,000	540	374,000	520	355,000	500
249	6750	6.70							427,000	630	417,000	615	396,000	590	378,000	570
258	7000	7.20									439,000	700	420,000	670	401,000	650
277	7500	8.26											461,000	840	445,000	820
295	8000	9.40											505,000	1050	488,000	1020
313	8500	10.6													530,000	1240
332	9000	11.9													573,000	1500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
194	5250	4.05	179,000	170												
203	5500	4.45	219,000	230	162,000	190										
212	5750	4.85	250,000	280	214,000	245										
221	6000	5.29	279,000	340	249,000	310										
231	6250	5.75	306,000	405	279,000	370	210,000	285								
240	6500	6.20	331,000	470	307,000	440	250,000	365								
249	6750	6.70	356,000	545	334,000	515	284,000	445	213,000	340						
258	7000	7.20	379,000	625	360,000	595	314,000	525	256,000	430						
277	7500	8.26	425,000	790	409,000	770	368,000	700	321,000	620	268,000	525				
295	8000	9.40	471,000	985	455,000	960	418,000	900	380,000	830	337,000	740	282,000	625		
313	8500	10.60	515,000	1210	499,000	1180	466,000	1120	432,000	1060	394,000	985	353,000	875	300,000	755
332	9000	11.90	559,000	1470	542,000	1430	512,000	1370	481,000	1310	450,000	1230	414,000	1140	373,000	1040
350	9500	13.28	600,000	1760	585,000	1720	558,000	1660	529,000	1580	500,000	1520	458,000	1430	432,000	1330
369	10000	14.7			629,000	2010	601,000	1970	575,000	1890	548,000	1810	520,000	1750	490,000	1660

Double Inlet

No. 22 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
33	1000	0.147	43,700	1.5												
40	1200	0.212	73,900	3.6												
46	1400	0.288	98,000	6.4	58,200	4.0										
53	1600	0.376	120,000	10	91,500	8.0										
59	1800	0.476	141,000	15	117,000	13.0	88,000	9.9								
66	2000	0.588			141,000	18.5	118,000	16.0	86,800	12						
73	2200	0.711			163,000	26	143,000	23.5	121,000	20	88,600	15				
80	2400	0.847			181,000	34	167,000	32	148,000	29	126,000	25	96,400	19		
86	2600	0.991			205,000	45	189,000	42	172,000	39	155,000	35	134,000	31	105,000	25
93	2800	1.15					211,000	54	196,000	50	180,000	48	163,000	43	143,000	38
100	3000	1.32					232,000	68	218,000	61	203,000	62	189,000	58	172,000	54
106	3200	1.51					252,000	84	240,000	80	227,000	76	214,000	74	199,000	70
113	3400	1.70							261,000	98	249,000	94	236,000	90	223,000	86
119	3600	1.91							282,000	120	270,000	115	259,000	110	247,000	105
126	3800	2.13									292,000	135	280,000	130	270,000	130
133	4000	2.35									313,000	160	302,000	155	292,000	155
138	4200	2.59											323,000	185	313,000	180
146	4400	2.84													335,000	210
152	4600	3.11													355,000	245
159	4800	3.39													377,000	285

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
93	2800	1.15	117,000	32												
100	3000	1.32	154,000	48												
106	3200	1.51	183,000	61	146,000	52										
113	3400	1.70	210,000	82	180,000	72	136,000	54								
119	3600	1.91	231,000	105	208,000	92	176,000	80								
126	3800	2.13	258,000	125	235,000	115	208,000	105	176,000	88						
133	4000	2.35	281,000	150	259,000	140	235,000	130	208,000	115	174,000	96				
138	4200	2.59	303,000	175	283,000	165	261,000	155	237,000	145	211,000	130				
146	4400	2.84	325,000	205	306,000	195	287,000	185	265,000	175	241,000	160	177,000	120		
152	4600	3.11	347,000	240	329,000	230	310,000	220	290,000	205	270,000	195	219,000	160		
159	4800	3.39	368,000	275	350,000	265	333,000	255	315,000	245	296,000	230	252,000	200	190,000	165
166	5000	3.67	389,000	315	372,000	305	355,000	290	339,000	280	321,000	270	282,000	240	234,000	205
174	5250	4.05			398,000	355	383,000	345	367,000	335	351,000	325	316,000	295	275,000	260
182	5500	4.45			425,000	420	410,000	405	395,000	395	380,000	380	347,000	355	311,000	320
191	5750	4.85			451,000	485	437,000	470	423,000	455	407,000	445	377,000	420	345,000	385
199	6000	5.29					464,000	545	449,000	525	435,000	515	408,000	490	378,000	460
207	6250	5.75					489,000	620	475,000	605	463,000	595	436,000	565	408,000	535
216	6500	6.20							502,000	690	488,000	670	463,000	645	439,000	615
221	6750	6.70							528,000	780	516,000	765	490,000	730	467,000	705
232	7000	7.20									543,000	865	520,000	830	496,000	800
249	7500	8.26											571,000	1040	550,000	1020
265	8000	9.40											625,000	1300	604,000	1260
282	8500	10.6													655,000	1530
299	9000	11.9													709,000	1800

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
174	5250	4.05	221,000	215												
182	5500	4.45	270,000	285	201,000	235										
191	5750	4.85	309,000	350	265,000	305										
199	6000	5.29	315,000	420	308,000	380										
207	6250	5.75	378,000	500	345,000	460	259,000	355								
216	6500	6.20	410,000	585	380,000	545	309,000	450								
221	6750	6.70	441,000	675	413,000	635	351,000	545	264,000	420						
232	7000	7.20	470,000	770	445,000	735	388,000	650	316,000	530						
249	7500	8.26	526,000	980	506,000	950	455,000	865	397,000	765	331,000	650				
265	8000	9.40	583,000	1220	562,000	1190	517,000	1110	470,000	1030	408,000	915	348,000	775		
282	8500	10.60	636,000	1490	616,000	1460	577,000	1380	535,000	1310	487,000	1220	437,000	1080	371,000	930
299	9000	11.90	691,000	1820	670,000	1770	634,000	1690	596,000	1620	556,000	1530	511,000	1410	461,000	1280
315	9500	13.28	743,000	2180	724,000	2120	690,000	2050	655,000	1960	618,000	1870	578,000	1770	534,000	1650
332	10000	14.70			777,000	2520	744,000	2430	710,000	2330	677,000	2270	641,000	2160	605,000	2050

Double Inlet

No. 24 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
31	1000	0.117	52,900	1.85												
37	1200	0.212	89,400	4.35												
42	1400	0.288	119,000	7.7	70,500	4.8										
49	1600	0.376	145,000	12	111,000	9.6										
55	1800	0.476	171,000	18	142,000	15.5	107,000	12.0								
60	2000	0.588			170,000	22.5	142,000	19.5	105,000	14.5						
67	2200	0.711			197,000	31	173,000	28	146,000	24	107,000	18				
73	2400	0.847			222,000	42	202,000	38	179,000	35	152,000	30	117,000	23		
79	2600	0.991			248,000	54	228,000	50	208,000	47	187,000	43	162,000	38	126,000	30
85	2800	1.15					255,000	66	237,000	62	217,000	58	197,000	52	172,000	47
91	3000	1.32					281,000	82	264,000	78	246,000	74	228,000	70	208,000	64
97	3200	1.51					305,000	100	290,000	96	275,000	92	259,000	88	241,000	84
103	3400	1.70							316,000	120	301,000	115	285,000	110	270,000	105
109	3600	1.91							344,000	145	326,000	140	313,000	135	298,000	130
115	3800	2.13									353,000	165	339,000	160	326,000	155
121	4000	2.35									378,000	195	365,000	190	353,000	185
127	4200	2.59											390,000	225	378,000	215
133	4400	2.84													405,000	255
140	4600	3.11													430,000	295
145	4800	3.39													455,000	340

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
85	2800	1.15	141,000	39												
91	3000	1.32	186,000	58												
97	3200	1.51	221,000	78	176,000	62										
103	3400	1.70	254,000	100	217,000	86	164,000	66								
109	3600	1.91	283,000	125	252,000	110	213,000	96								
115	3800	2.13	312,000	150	284,000	140	252,000	125	212,000	105						
121	4000	2.35	340,000	180	313,000	170	284,000	155	252,000	140	210,000	115				
127	4200	2.59	366,000	210	343,000	200	316,000	190	286,000	175	255,000	155				
133	4400	2.84	393,000	250	370,000	235	347,000	225	320,000	210	291,000	195	214,000	145		
140	4600	3.11	420,000	290	398,000	275	375,000	265	350,000	250	326,000	235	265,000	195		
145	4800	3.39	445,000	335	423,000	320	403,000	305	380,000	295	357,000	280	304,000	240	229,000	190
151	5000	3.67	470,000	380	449,000	365	430,000	350	410,000	340	388,000	325	341,000	290	282,000	245
159	5250	4.05			482,000	430	463,000	420	445,000	405	425,000	390	382,000	355	333,000	315
167	5500	4.45			513,000	505	496,000	490	478,000	480	459,000	460	420,000	430	376,000	390
174	5750	4.85			545,000	585	528,000	570	511,000	555	493,000	540	455,000	505	417,000	465
181	6000	5.29					560,000	655	543,000	635	526,000	620	492,000	590	456,000	555
189	6250	5.75					591,000	750	575,000	735	560,000	715	529,000	685	494,000	650
197	6500	6.20							607,000	830	590,000	810	560,000	780	530,000	745
204	6750	6.70							638,000	945	624,000	925	592,000	885	565,000	855
211	7000	7.20									656,000	1050	628,000	1010	600,000	970
226	7500	8.26											691,000	1260	665,000	1230
241	8000	9.40											755,000	1570	730,000	1520
256	8500	10.6													793,000	1850
271	9000	11.9													857,000	2250

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
159	5250	4.05	268,000	260												
167	5500	4.45	327,000	345	243,000	280										
174	5750	4.85	373,000	425	320,000	365										
181	6000	5.29	417,000	510	372,000	460										
189	6250	5.75	457,000	605	417,000	555	314,000	430								
197	6500	6.20	495,000	705	459,000	660	373,000	545								
204	6750	6.70	531,000	815	500,000	770	425,000	660	319,000	505						
211	7000	7.20	568,000	935	538,000	890	469,000	785	382,000	640						
226	7500	8.26	637,000	1180	612,000	1150	550,000	1050	480,000	930	400,000	785				
241	8000	9.40	705,000	1470	680,000	1440	626,000	1350	569,000	1240	504,000	1110	421,000	935		
256	8500	10.60	770,000	1810	745,000	1770	698,000	1670	616,000	1580	590,000	1470	528,000	1310	449,000	1130
271	9000	11.90	835,000	2200	810,000	2140	766,000	2050	720,000	1960	673,000	1850	619,000	1710	558,000	1550
287	9500	13.28	899,000	2640	876,000	2570	835,000	2480	791,000	2370	748,000	2270	700,000	2140	646,000	1990
302	10000	14.7			940,000	3050	900,000	2910	859,000	2820	820,000	2750	776,000	2620	732,000	2480

Double Inlet

No. 26 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¼″ Water .145 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅜″ Water .217 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ½″ Water .289 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅝″ Water .361 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¾″ Water .434 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅞″ Water .506 ozs. per sq. inch Volume C.F.M.	H.P.
28	1000	0 147	62,900	2 2												
34	1200	0 212	106,000	5.2												
39	1400	0 288	141,000	9 2	83,900	5 7										
44	1600	0 376	173,000	14 5	132,000	11 5										
50	1800	0 476	203,000	21 5	169,000	18 5	127,000	14								
56	2000	0 588			202,000	27	169,000	23	125,000	18						
61	2200	0 711			234,000	37	206,000	33	174,000	29	128,000	22				
67	2400	0 847			264,000	50	240,000	46	213,000	41	181,000	36	139,000	28		
72	2600	0 994			295,000	64	272,000	60	248,000	56	222,000	50	192,000	45	150,000	36
78	2800	1 15					303,000	78	282,000	74	258,000	68	234,000	62	205,000	56
83	3000	1 32					334,000	98	314,000	92	293,000	88	271,000	82	248,000	78
89	3200	1 51					363,000	120	345,000	115	327,000	110	308,000	105	287,000	100
94	3400	1 70							376,000	140	358,000	135	340,000	130	321,000	125
100	3600	1 91							405,000	170	388,000	165	372,000	160	355,000	155
106	3800	2 13									420,000	195	403,000	190	388,000	185
111	4000	2 35									450,000	235	435,000	225	420,000	220
116	4200	2 59											464,000	265	450,000	260
122	4400	2 84													481,000	305
128	4600	3 11													510,000	350
133	4800	3 39													541,000	405

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
78	2800	1.15	168,000	46												
83	3000	1.32	222,000	68												
89	3200	1 51	263,000	92	210,000	71										
94	3400	1 70	302,000	120	259,000	105	195,000	78								
100	3600	1 91	337,000	150	300,000	130	254,000	115								
106	3800	2 13	371,000	180	338,000	165	300,000	150	253,000	125						
111	4000	2 35	404,000	215	372,000	200	338,000	185	300,000	165	250,000	140				
116	4200	2 59	436,000	255	408,000	240	376,000	225	341,000	205	303,000	185				
122	4400	2 84	468,000	295	440,000	280	412,000	270	381,000	250	347,000	230	255,000	170		
128	4600	3.11	500,000	345	473,000	330	446,000	315	417,000	300	388,000	280	315,000	230		
133	4800	3 39	529,000	395	501,000	380	479,000	365	452,000	350	425,000	330	362,000	285	273,000	235
139	5000	3 67	560,000	455	535,000	435	511,000	420	487,000	405	461,000	390	405,000	345	336,000	290
146	5250	4 05			573,000	515	550,000	500	529,000	480	505,000	465	455,000	425	396,000	375
153	5500	4 45			610,000	600	590,000	580	569,000	570	546,000	550	500,000	510	448,000	465
160	5750	4 85			649,000	695	629,000	675	609,000	660	586,000	640	541,000	600	496,000	555
166	6000	5 29					667,000	780	646,000	760	626,000	740	586,000	700	543,000	660
173	6250	5 75					704,000	895	684,000	870	666,000	855	629,000	815	587,000	770
180	6500	6 20							722,000	990	702,000	965	666,000	925	631,000	885
187	6750	6 70							760,000	1120	743,000	1100	705,000	1050	672,000	1020
194	7000	7 20									781,000	1240	748,000	1200	714,000	1160
207	7500	8 26											823,000	1500	791,000	1460
221	8000	9 40											899,000	1870	870,000	1810
235	8500	10 6													944,000	2210
249	9000	11 9													1,020,000	2680

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
146	5250	4 05	318,000	305												
153	5500	4 45	389,000	410	289,000	335										
160	5750	4 85	414,000	505	381,000	435										
166	6000	5 29	496,000	610	443,000	550										
173	6250	5 75	544,000	725	496,000	650	374,000	510								
180	6500	6 20	589,000	840	546,000	785	444,000	650								
187	6750	6 70	635,000	970	595,000	915	505,000	785	380,000	605						
194	7000	7 20	675,000	1110	640,000	1060	558,000	935	455,000	765						
207	7500	8 26	758,000	1410	729,000	1370	655,000	1240	571,000	1110	476,000	935				
221	8000	9 40	839,000	1750	809,000	1710	744,000	1600	677,000	1480	599,000	1320	500,000	1110		
235	8500	10 60	916,000	2150	886,000	2100	830,000	1990	769,000	1880	701,000	1750	629,000	1500	535,000	1340
249	9000	11 90	994,000	2620	965,000	2550	912,000	2440	858,000	2330	800,000	2190	735,000	2030	664,000	1850
262	9500	13 28	1,070,000	3140	1,030,000	3000	994,000	2950	941,000	2820	890,000	2700	833,000	2550	770,000	2370
276	10000	14 70			1,120,000	3630	1,070,000	3500	1,020,000	3360	975,000	3270	924,000	3110	871,000	2950

Double Inlet

No. 2 Multivane Fan—Design 2

Double Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
319	1050	0.179	872	0.01												
400	1200	0.233	1,330	0.06												
466	1400	0.316	1,670	0.12												
532	1600	0.412	2,000	0.16	1,650	0.11										
598	1800	0.520	2,300	0.21	2,080	0.24	1,310	0.14								
665	2000	0.645			2,420	0.34	2,120	0.28								
731	2200	0.780			2,740	0.44	2,540	0.44	2,140	0.34						
797	2400	0.930			3,060	0.58	2,860	0.58	2,610	0.52	2,160	0.42				
864	2600	1.09			3,360	0.74	3,180	0.74	3,020	0.80	2,780	0.64	2,240	0.50		
930	2800	1.26					3,500	0.92	3,340	0.92	3,200	0.88	2,920	0.78	2,360	0.62
996	3000	1.45					3,820	1.15	3,680	1.15	3,540	1.10	3,360	1.05	3,080	0.96
1062	3200	1.65					4,140	1.4	3,980	1.40	3,880	1.40	3,720	1.35	3,560	1.30
1130	3400	1.86							4,320	1.65	4,180	1.65	4,010	1.65	3,940	1.65
1196	3600	2.10							4,620	1.95	4,480	1.95	4,360	2.0	4,260	1.95
1262	3800	2.32									4,820	2.4	4,720	2.4	4,600	2.4
1329	4000	2.58									5,120	2.6	5,010	2.7	4,900	2.6
1396	4200	2.85											5,340	3.1	5,220	3.0
1462	4400	3.13											5,640	3.6	5,540	3.6
1528	4600	3.41													5,860	4.2
1594	4800	3.7													6,180	4.8

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
996	3000	1.45	2,580	0.78												
1062	3200	1.65	3,280	1.15												
1130	3400	1.86	3,760	1.5	3,080	1.20										
1196	3600	2.10	4,140	1.9	3,740	1.65	2,800	1.25								
1262	3800	2.32	4,480	2.2	4,220	2.0	3,660	1.8								
1329	4000	2.58	4,780	2.6	4,580	2.6	4,220	2.2	3,540	1.9						
1396	4200	2.85	5,120	3.0	4,940	3.0	4,680	2.8	4,260	2.6	3,440	2.4				
1462	4400	3.13	5,480	3.6	5,260	3.6	5,000	3.4	4,780	3.2	4,280	2.8				
1528	4600	3.41	5,780	4.2	5,600	4.0	5,400	4.0	5,200	3.8	4,860	3.6	3,240	2.2		
1594	4800	3.70	6,080	4.6	5,900	4.6	5,740	4.6	5,560	4.4	5,300	4.2	4,320	3.2		
1662	5000	4.05	6,380	5.4	6,220	5.4	6,060	5.2	5,880	5.2	5,660	5.2	5,020	4.2	3,280	2.8
1745	5250	4.41			6,620	6.2	6,480	6.2	6,280	6.2	6,120	6.0	5,660	5.4	4,720	4.4
1828	5500	4.88			6,980	7	6,860	7.0	6,680	7.0	6,520	7.0	6,200	6.6	5,580	5.8
1910	5750	5.33			7,380	8	7,240	8.0	7,100	8.0	6,960	8.0	6,660	7.8	6,200	7.0
1993	6000	5.80					7,640	9.1	7,480	9.0	7,360	9.0	7,080	9.0	6,700	8.4
2076	6250	6.30							7,880	10.0	7,760	10.0	7,480	10.0	7,180	10.0
2160	6500	6.81							8,280	11.5	8,120	11.5	7,880	11.5	7,640	11.5
2240	6750	7.34							8,660	13	8,560	13.0	8,280	13.0	8,010	13.0
2325	7000	7.89									8,920	14.5	8,680	14.5	8,460	14.5
2490	7500	9.06											9,460	18	9,220	18
2660	8000	10.32													10,020	22
2820	8500	11.63													10,820	26
2990	9000	13.05													11,600	31

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1828	5500	4.88	4,200	4.2												
1910	5750	5.33	5,400	6.2	3,440	4.0										
1993	6000	5.80	6,180	7.6	5,140	6.2										
2076	6250	6.30	6,820	9.2	6,120	7.8										
2160	6500	6.81	7,320	11.0	6,840	9.8	4,560	6.6								
2240	6750	7.34	7,760	12.5	7,380	12.0	5,940	9.0								
2325	7000	7.89	8,200	14.5	7,880	13.5	6,880	11								
2490	7500	9.06	9,000	18	8,780	17.5	8,160	16	6,960	13						
2660	8000	10.32	9,800	22	9,620	22	9,140	20	8,480	19	7,060	14				
2820	8500	11.63	10,600	26	10,100	26	10,000	25	9,560	24	8,740	22	7,300	18		
2990	9000	13.05	11,400	31	11,200	31	10,900	31	10,400	30	9,960	28	9,140	25	7,680	21
3160	9500	14.53	12,200	36	12,000	36	11,600	36	11,300	36	10,900	35	10,300	33	9,560	29
3320	10000	16.20			12,800	42	12,500	42	12,000	41	11,800	42	11,400	41	11,900	38

Double Inlet # No. 3 Multivane Fan—Design 2 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
279	1050	0.179	1,360	0.04												
318	1200	0.233	2,080	0.10												
371	1400	0.316	2,620	0.18												
424	1600	0.412	3,120	0.26	2,580	0.22										
477	1800	0.520	3,600	0.36	3,240	0.36	2,040	0.22								
530	2000	0.645			3,780	0.52	3,320	0.46								
583	2200	0.780			4,280	0.70	3,960	0.68	3,340	0.54						
636	2400	0.930			4,800	0.90	4,460	0.90	4,140	0.82	3,380	0.66				
689	2600	1.09			5,260	1.15	4,960	1.15	4,720	1.10	4,340	1.00	3,500	0.8		
742	2800	1.26					5,480	1.45	5,220	1.45	4,980	1.40	4,560	1.2	3,680	0.96
795	3000	1.45					5,960	1.8	5,740	1.8	5,520	1.75	5,260	1.7	4,820	1.5
848	3200	1.65					6,440	2.2	6,220	2.2	6,040	2.2	5,820	2.0	5,560	2.0
901	3400	1.86							6,720	2.6	6,520	2.6	6,320	2.6	6,160	2.4
951	3600	2.10							7,200	3	7,020	3.0	6,840	3.0	6,660	3.0
1007	3800	2.32									7,520	3.6	7,360	3.6	7,160	3.6
1060	4000	2.58									7,980	4.2	7,860	4.2	7,640	4.2
1113	4200	2.85											8,340	4.8	8,160	4.8
1166	4400	3.13											8,800	5.6	8,640	5.6
1220	4600	3.41													9,160	6.4
1273	4800	3.7													9,640	7.2

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
795	3000	1.45	4,020	1.2												
848	3200	1.65	5,120	1.8												
901	3400	1.86	5,860	2.4	4,800	1.9										
951	3600	2.10	6,480	3.0	5,820	2.6	4,380	1.95								
1007	3800	2.32	7,000	3.6	6,580	3.2	5,700	2.8								
1060	4000	2.58	7,460	4.2	7,140	4.0	6,580	3.6	5,520	3.0						
1113	4200	2.85	8,000	4.8	7,700	4.8	7,300	4.6	6,060	4.0	5,360	3.2				
1166	4400	3.13	8,540	5.6	8,200	5.6	7,900	5.4	7,440	5.0	6,680	4.4				
1220	4600	3.41	9,020	6.4	8,740	6.4	8,440	6.2	8,120	6.0	7,560	5.6	5,040	3.6		
1273	4800	3.70	9,500	7.2	9,200	7.2	8,940	7.2	8,700	7.0	8,260	6.6	6,720	5.2		
1326	5000	4.05	9,960	8.2	9,700	8.2	9,460	8.2	9,200	8.2	8,840	8.0	7,840	6.6	5,140	4.4
1392	5250	4.44			10,340	9.6	10,100	9.6	9,800	9.6	9,560	9.4	8,840	8.4	7,360	6.8
1459	5500	4.88			10,900	11.0	10,700	11.0	10,440	11.0	10,200	11.0	9,700	10.5	8,680	9.0
1524	5750	5.33			11,500	12.5	11,300	12.5	11,100	12.5	10,900	12.5	10,400	12	9,680	11.0
1590	6000	5.80							11,700	14	11,500	14	11,000	14	10,480	13.0
1658	6250	6.30							12,300	16	12,100	16	11,600	16	11,200	15.5
1723	6500	6.81							13,000	18	12,700	18	12,300	18	11,900	18
1790	6750	7.34							13,600	20	13,300	20	12,900	20	12,500	20
1856	7000	7.89									13,900	23	13,600	23	13,200	23
1990	7500	9.06											14,800	28	14,400	28
2120	8000	10.32													15,600	34
2258	8500	11.63													16,900	40
2390	9000	13.05													18,100	48

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1459	5500	4.88	6,540	6.8												
1524	5750	5.33	8,440	9.4	5,360	6.2										
1590	6000	5.80	9,640	12.0	8,040	9.8										
1658	6250	6.30	10,620	14.5	9,560	12.0										
1723	6500	6.81	11,400	17	10,600	15.0	7,120	10.5								
1790	6750	7.34	12,100	20	11,500	18.5	9,280	14.0								
1856	7000	7.89	12,800	22	12,300	21	10,700	17.5								
1990	7500	9.06	14,100	28	13,700	28	12,800	25	10,900	21						
2120	8000	10.32	15,300	34	15,000	31	14,300	32	13,300	29	11,000	24				
2258	8500	11.63	16,600	40	16,300	40	15,600	40	14,900	38	13,800	34	11,400	28		
2390	9000	13.05	17,800	48	17,500	48	17,000	48	16,200	47	15,600	44	14,300	40	12,000	33
2520	9500	14.53	19,000	56	18,700	56	18,200	56	17,600	56	17,000	56	16,100	52	14,920	46
2650	10000	16.20			19,900	66	19,400	66	19,000	66	18,400	66	17,800	64	17,020	60

Double Inlet

No. 4 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure ⅛″ Water .0722 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¼″ Water .145 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅜″ Water .217 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ½″ Water .289 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅝″ Water .361 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¾″ Water .434 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅞″ Water .506 ozs. per sq. inch	H. P.
231	1050	0.179	1,974	0.074												
265	1200	0.234	3,000	0.15												
309	1400	0.316	3,780	0.26												
353	1600	0.412	4,520	0.37	3,720	0.33										
397	1800	0.520	5,200	0.52	4,680	0.54	3,060	0.34								
442	2000	0.645			5,460	0.77	4,800	0.66								
486	2200	0.780			6,200	1.0	5,720	1.0	4,840	0.79						
530	2400	0.930			6,940	1.3	6,460	1.3	5,980	1.2	4,880	0.96				
573	2600	1.09			7,600	1.7	7,200	1.7	6,820	1.6	6,280	1.45	5,060	1.15		
618	2800	1.26					7,940	2.1	7,560	2.1	7,200	2.00	6,600	1.8	5,320	1.40
662	3000	1.45					8,640	2.6	8,300	2.6	8,000	2.55	7,600	2.4	6,980	2.35
706	3200	1.65					9,340	3.1	9,000	3.1	8,740	3.1	8,400	3.1	8,040	2.9
750	3400	1.86							9,740	3.7	9,440	3.7	9,140	3.7	8,900	3.7
794	3600	2.10							10,400	4.5	10,100	4.5	9,880	4.5	9,620	4.4
838	3800	2.32									10,900	5.4	10,700	5.4	10,400	5.4
883	4000	2.58									11,500	6.1	11,400	6.1	11,100	6.1
927	4200	2.85											12,100	7.0	11,800	6.9
970	4400	3.13											12,700	8.1	12,500	8.1
1015	4600	3.41													13,200	9.3
1059	4800	3.7													13,900	10.5

R.P.M	Tip Speed F.P M	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½′ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
662	3000	1.45	5,820	1.8												
706	3200	1.65	7,420	2.6												
750	3400	1.86	8,480	3.4	6,940	2.7										
794	3600	2.10	9,360	4.4	8,420	3.8	6,320	2.8								
838	3800	2.32	10,100	5.2	9,520	4.8	8,260	4.1								
883	4000	2.58	10,800	6.1	10,300	5.9	9,500	5.3	8,000	4.3						
927	4200	2.85	11,600	7.0	11,100	6.9	10,500	6.6	9,620	5.8	7,760	4.7				
970	4400	3.13	12,400	8.1	11,900	8.1	11,400	7.9	10,800	7.3	9,660	6.4				
1015	4600	3.41	13,100	9.3	12,700	9.3	12,200	9.2	11,800	8.7	11,000	8.1	7,300	5.3		
1059	4800	3.70	13,700	10.5	13,300	10.5	12,900	10.5	12,600	10.5	11,900	9.6	9,740	7.6		
1103	5000	4.05	14,400	12	14,100	12	13,700	12	13,300	12	12,800	11.5	11,300	9.7	7,440	6.5
1159	5250	4.44			14,900	15	14,600	15	14,200	15	13,800	13.5	12,800	12	10,700	9.9
1213	5500	4.88			15,800	16	15,500	16	15,100	16	14,800	16	14,000	15	12,600	13
1269	5750	5.33			16,700	20	16,300	20	16,100	20	15,700	18	15,100	18	14,000	16
1323	6000	5.80					17,300	21	16,900	21	16,600	20	16,000	20	15,200	19
1380	6250	6.30							17,800	23	17,500	23	16,900	23	16,200	23
1434	6500	6.81							18,700	26	18,400	26	17,800	26	17,100	26
1490	6750	7.34							19,500	29	19,300	29	18,700	29	18,200	29
1544	7000	7.89									20,200	33	19,600	33	19,100	33
1650	7500	9.06											21,400	40	20,800	40
1760	8000	10.32													22,600	50
1870	8500	11.63													24,400	58
1980	9000	13.05													26,200	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
1213	5500	4.88	9,480	9.8												
1269	5750	5.33	12,200	13.5	7,760	9										
1323	6000	5.80	14,000	17.4	10,600	14										
1380	6250	6.30	15,400	21	13,800	18										
1434	6500	6.81	16,500	25	15,400	22	10,300	15								
1490	6750	7.34	17,500	29	16,700	27	13,400	21								
1544	7000	7.89	18,500	32	17,800	31	15,500	25								
1650	7500	9.06	20,400	40	19,800	40	18,500	30	15,700	30						
1760	8000	10.32	22,200	50	21,800	49	20,800	46	19,200	42	15,900	34				
1870	8500	11.63	24,000	58	23,600	58	22,600	58	21,600	54	19,800	49	16,500	40		
1980	9000	13.05	25,800	70	25,400	70	24,600	70	23,600	68	22,600	64	20,600	58	17,780	48
2090	9500	14.53	27,600	82	27,200	82	26,200	82	25,600	82	24,600	80	23,400	74	21,600	66
2200	10000	16.2			28,800	96	28,200	96	27,400	96	26,600	96	25,800	92	24,600	86

Double Inlet

No. 5 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
199	1050	0.179	2,660	0.10												
227	1200	0.233	4,060	0.21												
265	1400	0.316	5,100	0.35												
303	1600	0.412	6,100	0.5	5,010	0.41										
311	1800	0.520	7,020	0.7	6,320	0.73	4,110	0.45								
379	2000	0.645			7,380	1.05	6,480	0.90								
417	2200	0.780			8,360	1.40	7,720	1.35	6,520	1.1						
455	2400	0.930			9,360	1.75	8,700	1.75	8,060	1.6	6,600	1.3				
492	2600	1.09			10,300	2.3	9,700	2.3	9,200	2.2	8,480	2.0	6,820	1.55		
530	2800	1.26					10,700	2.8	10,200	2.8	9,720	2.7	8,920	2.4	7,180	1.9
568	3000	1.45					11,600	3.5	11,200	3.5	10,800	3.4	10,300	3.3	9,400	2.9
606	3200	1.65					12,600	4.1	12,100	4.2	11,800	4.2	11,300	4.1	10,800	3.9
644	3400	1.86							13,100	5	12,700	5.0	12,300	5.0	12,000	5.0
682	3600	2.10							14,000	6	13,700	6.0	13,300	6.0	13,000	6.0
720	3800	2.32									14,700	7.0	14,400	7.0	14,000	7.0
758	4000	2.58									15,600	8.1	15,300	8.2	14,900	8.2
795	4200	2.85											16,300	9.5	15,900	9.5
833	4400	3.13											17,200	11	16,900	11.0
871	4600	3.41													17,900	12.5
908	4800	3.7													18,800	14

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
568	3000	1.45	7,840	2.4												
606	3200	1.65	10,000	3.5												
644	3400	1.86	11,400	4.6	9,360	3.6										
682	3600	2.10	12,600	5.9	11,400	5.1	8,540	3.8								
720	3800	2.32	13,700	7.0	12,800	6.5	11,200	5.5								
758	4000	2.58	14,600	8.2	13,900	8.0	12,800	7.2	10,800	5.8						
795	4200	2.85	15,600	9.5	15,000	9.4	14,200	9.0	13,000	7.9	10,500	6.3				
833	4400	3.13	16,700	11.0	16,000	11.0	15,400	11.0	14,500	9.8	13,000	8.6				
871	4600	3.41	17,600	12.5	17,100	12.5	16,500	12.5	15,900	12	14,800	11.0	9,860	7.1		
908	4800	3.70	18,500	14	18,000	14	17,500	14	17,000	14	16,100	13.0	13,100	10.0		
947	5000	4.05	19,500	16	19,000	16	18,500	16	17,900	16	17,300	15.5	15,300	13.0	10,000	8.7
994	5250	4.44			20,200	19	19,700	19	19,200	19	18,700	18.5	17,300	16.5	14,400	13.5
1042	5500	4.88			21,400	21	21,000	21	20,400	21	19,900	21	18,920	20	17,000	17.5
1090	5750	5.33			22,600	24	22,000	24	21,600	24	21,200	24	20,400	24	18,900	22
1136	6000	5.80					23,000	28	22,800	28	22,400	28	21,600	28	20,400	26
1183	6250	6.30							24,000	31	23,600	31	22,800	31	22,000	31
1230	6500	6.81							25,200	35	24,800	35	24,000	35	23,200	35
1278	6750	7.34							26,400	40	26,000	40	25,200	40	24,600	40
1325	7000	7.89									27,200	44	26,500	44	25,800	44
1420	7500	9.06											28,800	54	28,200	54
1514	8000	10.32													30,600	66
1610	8500	11.63													33,000	80
1700	9000	13.05													35,400	94

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1042	5500	4.88	12,800	13.0												
1090	5750	5.33	16,500	18.5	10,400	12										
1136	6000	5.80	18,800	23	15,700	19										
1183	6250	6.30	20,800	28	18,700	24										
1230	6500	6.81	22,400	34	20,800	30	13,900	20								
1278	6750	7.34	23,600	38	22,600	36	18,100	28								
1325	7000	7.89	25,000	44	24,200	42	21,000	34								
1420	7500	9.06	27,600	54	26,800	54	25,000	49	21,200	40						
1514	8000	10.32	29,800	66	29,400	66	28,000	62	26,000	58	21,600	46				
1610	8500	11.63	32,400	80	31,800	80	30,600	78	29,200	74	26,600	66	22,200	54		
1700	9000	13.05	34,800	94	34,200	94	33,200	94	31,800	92	30,400	86	27,800	78	23,400	64
1795	9500	14.53	37,200	110	36,600	110	35,400	110	34,100	110	33,200	110	31,600	100	29,200	90
1894	10000	16.2			39,000	130	38,000	130	37,000	130	35,800	130	34,800	125	33,200	115

Double Inlet

No. 6 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
174	1050	0.179	3,500	0.13												
199	1200	0.233	5,320	0.27												
232	1400	0.316	6,700	0.46												
266	1600	0.412	8,000	0.65	6,600	0.58										
298	1800	0.520	9,220	0.95	8,300	0.95	5,440	0.60								
332	2000	0.645			9,680	1.35	8,500	1.20								
365	2200	0.780			11,000	1.8	10,100	1.75	8,560	1.4						
398	2400	0.930			12,300	2.3	11,400	2.3	10,600	2.1	8,660	1.7				
431	2600	1.09			13,500	3	12,800	3.0	12,100	2.9	11,100	2.6	8,960	2.1		
464	2800	1.26					14,100	3.7	13,100	3.7	12,800	3.5	11,700	3.1	9,440	2.5
498	3000	1.45					15,300	4.5	14,700	4.5	14,200	4.5	13,500	4.3	12,400	3.8
530	3200	1.65					16,500	5.6	16,000	5.6	15,500	5.6	14,900	5.4	14,300	5.1
564	3400	1.86							17,300	6.5	16,700	6.5	16,200	6.5	15,800	6.5
597	3600	2.10							18,500	7.9	18,000	7.9	17,500	7.9	17,100	7.9
630	3800	2.32									19,300	9.5	18,900	9.5	18,400	9.5
663	4000	2.58									20,400	11	20,200	11.0	19,600	11.0
696	4200	2.85											21,400	12.5	21,000	12.5
729	4400	3.13											22,600	14.5	22,200	14.5
763	4600	3.41													23,400	16.5
796	4800	3.70													24,800	20

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
498	3000	1.45	10,300	3.1												
530	3200	1.65	13,100	4.6												
564	3400	1.86	15,000	6.1	12,300	4.8										
597	3600	2.10	16,600	7.7	14,900	6.7	11,200	5.0								
630	3800	2.32	17,900	9.2	16,900	8.5	14,600	7.2								
663	4000	2.58	19,200	11.0	18,300	10.5	16,900	9.4	14,200	7.7						
696	4200	2.85	20,600	12.5	19,800	12.0	18,700	12	17,100	10.5	13,700	8.3				
729	4400	3.13	22,000	14.5	21,000	14.5	20,200	14	19,100	13.0	17,100	11.5				
763	4600	3.41	23,200	16.5	22,400	16.5	21,600	16	20,800	15.5	19,100	14	13,000	9.4		
796	4800	3.70	24,400	19	23,600	19	23,000	19	22,400	18	21,200	17	17,300	13.5		
828	5000	4.05	25,600	21	25,000	21	24,200	21	23,600	21	22,600	20	20,000	17	13,200	11.5
870	5250	4.44			26,400	25	25,800	25	25,200	25	24,600	24	22,600	22	18,900	18
911	5500	4.88			28,000	28	27,400	28	26,800	28	26,200	28	24,800	27	22,400	23
953	5750	5.33			29,600	32	29,000	32	28,400	32	27,800	32	26,600	32	24,800	29
995	6000	5.80					30,600	36	30,000	36	29,400	36	28,400	36	26,800	34
1037	6250	6.30							31,500	41	31,000	41	30,000	41	28,800	40
1078	6500	6.81							33,200	46	32,600	46	31,600	46	30,600	46
1120	6750	7.31							34,600	52	34,200	52	33,200	52	32,200	52
1161	7000	7.89									35,800	58	34,800	58	33,800	58
1243	7500	9.06											38,000	72	37,000	72
1328	8000	10.32													40,200	86
1410	8500	11.63													43,400	105
1490	9000	13.05													46,400	125

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
911	5500	4.88	16,800	17.5												
953	5750	5.33	21,600	24	13,700	16										
995	6000	5.80	24,800	31	20,600	25										
1037	6250	6.30	27,300	37	24,600	31										
1078	6500	6.81	29,200	44	27,400	39	18,200	27								
1120	6750	7.34	31,000	50	29,600	47	23,800	36								
1161	7000	7.89	32,800	58	31,600	54	27,600	44								
1243	7500	9.06	36,000	72	35,200	70	32,800	64	27,800	51						
1328	8000	10.32	39,200	86	38,600	86	36,600	82	34,000	76	28,200	60				
1410	8500	11.63	42,400	105	41,600	105	40,200	100	38,200	98	35,000	88	29,200	72		
1490	9000	13.05	45,600	125	44,800	125	43,600	125	41,600	120	39,800	112	36,600	100	30,800	84
1575	9500	14.53	48,800	145	48,000	175	46,600	145	45,200	145	43,600	140	41,600	135	38,200	116
1660	10000	16.20			51,200	170	50,000	170	48,600	170	47,000	160	45,600	165	43,600	152

Double Inlet

No. 6½ Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
154	1050	0.179	4,440	0.17												
177	1200	0.233	6,820	0.34												
206	1400	0.316	8,580	0.59												
236	1600	0.412	10,260	0.84	8,460	0.74										
265	1800	0.520	11,800	1.2	10,600	1.20	6,960	0.77								
294	2000	0.645			12,400	1.75	10,900	1.5								
324	2200	0.780			14,100	2.3	13,000	2.3	11,000	1.8						
354	2400	0.930			15,700	3.0	14,700	3.0	13,600	2.7	11,100	2.2				
383	2600	1.09			17,200	3.8	16,300	3.8	15,500	3.7	14,200	3.3	11,500	2.6		
412	2800	1.26					18,000	4.7	17,200	4.7	16,400	4.5	15,000	4.0	12,000	3.2
442	3000	1.45					19,600	5.8	18,800	5.8	18,100	5.8	17,300	5.5	15,800	4.9
472	3200	1.65					21,200	7.1	20,400	7.1	19,800	7.1	19,100	7.0	18,200	6.5
500	3400	1.86							22,200	8.4	21,400	8.4	20,800	8.4	20,200	8.4
530	3600	2.10							23,600	10	23,000	10.0	22,400	10	21,800	10.0
558	3800	2.32									24,800	11.8	24,200	12	23,600	12.0
590	4000	2.58									26,200	13.8	25,800	14	25,200	14.0
619	4200	2.85											27,400	16	26,800	16.0
618	4400	3.13											28,800	18	28,400	18.5
677	4600	3.41													30,000	21
707	4800	3.7													31,600	24

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½' Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
412	3000	1.45	13,200	4.0												
472	3200	1.65	16,800	5.9												
500	3400	1.86	19,200	7.8	15,700	6.1										
530	3600	2.10	21,200	9.9	19,100	8.5	14,400	6.4								
558	3800	2.32	23,000	12.0	21,600	11.0	18,800	9.2								
590	4000	2.58	24,600	14.0	23,400	13.0	21,600	12	18,200	9.8						
619	4200	2.85	26,200	16.0	25,200	16.0	24,000	15	21,800	13.0	17,600	10.5				
618	4400	3.13	28,000	18.5	27,000	18.5	26,000	18	24,400	16.5	22,000	14				
677	4600	3.41	29,600	21	28,800	21	27,800	21	26,800	20	24,800	18	16,600	12		
707	4800	3.70	31,200	24	30,200	24	29,400	24	28,600	23	27,200	22	22,200	17		
736	5000	4.05	32,800	27	31,800	27	31,000	27	30,200	27	29,000	26	25,800	22	16,900	14.5
774	5250	4.44			34,000	32	33,200	32	32,200	32	31,400	31	29,000	28	24,200	22
810	5500	4.88			35,800	36	35,200	36	34,200	36	33,400	36	31,800	34	28,600	30
847	5750	5.33			37,800	41	37,000	41	36,400	41	35,600	41	34,200	40	31,800	37
885	6000	5.80					39,200	46	38,400	46	37,600	46	36,200	48	34,200	44
920	6250	6.30							40,400	52	39,800	52	38,400	52	36,800	52
957	6500	6.81							42,400	60	41,600	60	40,400	60	39,200	58
995	6750	7.34							44,400	66	43,800	66	42,400	66	41,200	66
1030	7000	7.89									45,600	74	44,600	74	43,400	74
1098	7500	9.06											48,600	92	47,400	92
1170	8000	10.32													51,400	110
1244	8500	11.63													55,400	130
1318	9000	13.05													59,400	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
810	5500	4.88	21,600	22												
847	5750	5.33	27,800	31	17,600	20										
885	6000	5.80	31,600	39	26,400	32										
920	6250	6.30	35,000	48	31,400	40										
957	6500	6.81	37,600	56	35,000	50	23,400	34								
995	6750	7.34	39,800	64	37,800	60	30,400	47								
1030	7000	7.89	42,000	74	40,400	70	35,200	56								
1098	7500	9.06	46,200	92	45,000	90	42,000	82	35,600	68						
1170	8000	10.32	50,200	110	49,400	110	47,000	101	43,600	96	36,200	78				
1244	8500	11.63	54,400	130	53,400	130	51,400	132	49,000	125	44,800	110	37,400	92		
1318	9000	13.05	58,400	160	57,400	160	55,800	160	53,400	155	51,000	145	46,800	130	39,400	105
1390	9500	14.53	62,400	185	61,600	185	59,600	185	58,000	185	56,000	180	53,200	170	49,000	150
1463	10000	16.2			65,600	220	63,800	220	62,200	220	60,200	210	58,100	210	56,000	195

Double Inlet

No. 7 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
111	1050	0.179	5,160	0.20												
159	1200	0.233	8,300	0.42												
186	1400	0.316	10,500	0.72												
212	1600	0.412	12,500	1.0	10,300	0.91										
239	1800	0.520	14,400	1.5	13,000	1.50	8,460	0.94								
265	2000	0.645			15,100	2.10	13,300	1.85								
292	2200	0.78			17,100	2.80	15,600	2.8	13,400	2.2						
318	2400	0.93			19,200	2.16	15,800	3.6	16,500	3.3	13,500	2.7				
345	2600	1.09			21,000	4.6	19,900	4.6	18,900	4.5	17,300	4.1	11,000	3.2		
371	2800	1.26					22,000	5.8	21,000	5.8	20,000	5.5	18,300	4.9	14,700	3.9
398	3000	1.45					23,800	7.1	23,000	7.1	22,200	7.0	21,000	3.7	19,300	6.0
424	3200	1.65					25,800	8.7	25,000	8.7	24,200	8.7	23,200	8.5	22,200	8.0
451	3400	1.86							27,000	10.0	26,200	10	25,400	10.0	24,600	10.0
478	3600	2.10							28,800	12.5	28,000	12	27,400	12.5	26,600	12.0
504	3800	2.32									30,000	15	29,400	15.0	28,600	15.0
530	4000	2.58									32,000	17	31,400	17.0	30,600	17.0
557	4200	2.85											33,400	19.5	32,600	19.5
584	4400	3.13											35,200	22	34,400	22
610	4600	3.41													36,600	26
637	4800	3.7													38,600	30

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
398	3000	1.45	16,100	4.9												
421	3200	1.65	20,600	7.2												
451	3400	1.86	23,400	9.5	19,200	7.5										
478	3600	2.10	26,000	12.0	23,200	10.5	17,500	7.8								
504	3800	2.32	28,000	14.0	26,400	13.0	22,800	11.0								
530	4000	2.58	29,800	17.0	28,600	16.5	26,400	14.6	22,200	12						
557	4200	2.85	32,000	19.5	30,800	19	29,200	18.5	26,600	16	21,400	13				
584	4400	3.13	34,200	22	32,800	22	31,600	22	29,800	20	26,800	18				
610	4600	3.41	36,200	26	35,000	26	33,800	25	32,600	24	30,200	22	20,200	14.5		
637	4800	3.70	38,000	29	36,800	29	35,800	29	34,800	28	33,000	27	27,000	21		
663	5000	4.05	40,000	33	38,800	33	38,000	33	36,800	33	35,800	32	31,400	27	20,600	18
697	5250	4.44			41,400	39	40,400	39	39,400	39	38,200	38	35,400	34	29,400	27
730	5500	4.88			43,600	44	42,800	44	41,800	44	40,800	44	38,800	41	34,800	36
763	5750	5.33			46,000	50	45,200	50	44,400	50	43,400	50	41,600	49	38,800	45
796	6000	5.80							46,800	56	46,000	56	44,200	56	42,000	54
829	6250	6.30							49,200	64	48,400	64	46,800	64	44,800	62
862	6500	6.81							51,800	72	50,800	72	49,200	72	47,600	72
895	6750	7.34							54,000	82	53,200	82	51,800	82	50,200	82
928	7000	7.89									55,600	90	54,400	90	52,800	90
995	7500	9.06											59,200	110	57,600	110
1060	8000	10.32													62,600	130
1125	8500	11.63													67,600	160
1192	9000	13.05													72,400	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
730	5500	4.88	26,200	27												
763	5750	5.33	33,800	38	21,400	25										
796	6000	5.80	38,600	48	32,200	39										
829	6250	6.30	42,600	58	38,200	49										
862	6500	6.81	45,600	70	42,800	62	28,400	42								
895	6750	7.34	48,400	78	46,000	74	37,200	56								
928	7000	7.89	51,200	90	49,200	86	43,000	70								
995	7500	9.06	56,400	110	54,800	110	51,200	100	43,400	82						
1060	8000	10.32	61,200	135	60,200	135	57,400	130	53,000	115	44,000	94				
1125	8500	11.63	66,200	160	65,000	160	62,600	160	59,600	150	54,600	135	45,600	110		
1192	9000	13.05	71,000	190	70,000	190	68,000	190	65,000	190	62,200	175	57,200	160	48,000	130
1260	9500	14.53	76,000	230	75,000	230	72,600	230	70,600	230	68,200	220	64,800	200	59,600	185
1326	10000	16.2			79,600	270	77,800	270	75,800	270	73,400	280	71,200	250	68,000	240

Double Inlet

No. 8 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
116	1050	0.179	7,920	0.30												
133	1200	0.233	12,100	0.61												
155	1400	0.316	15,200	1.05												
177	1600	0.412	18,100	1.5	14,900	1.3										
199	1800	0.520	20,800	2.2	18,800	2.2	12,300	1.35								
221	2000	0.645			21,800	3.1	19,200	2.7								
243	2200	0.780			24,800	4.1	23,000	4.0	19,400	3.2						
265	2400	0.930			27,800	5.2	25,800	5.2	24,000	4.8	19,600	3.8				
287	2600	1.09			30,400	6.7	28,800	6.7	27,400	6.5	25,200	5.9	20,200	4.7		
309	2800	1.26					31,800	8.3	30,400	8.3	29,000	8.0	26,400	7.1	21,400	5.6
332	3000	1.45					34,600	10.0	33,200	10.0	32,000	10.0	30,400	9.7	28,000	8.6
354	3200	1.65					37,400	12.5	36,000	12.5	35,000	12.5	33,800	12	32,200	12
376	3400	1.86							39,000	15	37,800	15	36,600	15	35,600	15
398	3600	2.10							41,000	18	40,600	18	39,600	18	38,600	18
420	3800	2.32									43,600	21	42,800	21	41,600	21
442	4000	2.58									46,400	24	45,600	24	44,400	24
464	4200	2.85											48,400	28	47,400	28
486	4400	3.13											51,000	33	50,200	33
508	4600	3.41													53,000	37
530	4800	3.7													56,000	42

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
332	3000	1.45	23,400	7.1												
354	3200	1.65	29,800	10.5												
376	3400	1.86	34,000	14.0	27,800	11										
398	3600	2.10	37,600	17.5	33,800	15	25,400	11								
420	3800	2.32	40,600	21	38,200	19	33,200	16								
442	4000	2.58	43,400	24	41,400	24	38,200	21	32,000	17.5						
464	4200	2.85	46,400	28	44,600	28	42,400	27	38,600	23	31,000	18.5				
486	4400	3.13	49,600	33	47,600	33	45,800	32	43,200	29	38,800	26				
508	4600	3.41	52,400	37	50,800	37	49,000	37	47,200	35	44,000	32	29,200	21		
530	4800	3.70	55,000	42	53,400	42	52,000	42	50,400	41	48,000	38	39,000	30		
552	5000	4.05	57,800	48	56,400	48	55,000	48	53,200	48	51,200	46	45,400	39	29,800	26
580	5250	4.44			60,000	56	58,600	56	56,800	56	55,400	54	51,200	49	42,800	40
608	5500	4.88			63,200	64	62,000	64	60,400	64	59,200	64	56,200	60	50,400	52
636	5750	5.33			66,800	72	65,600	72	64,400	72	63,000	72	60,400	72	56,200	66
663	6000	5.80					69,000	82	67,800	82	66,600	82	64,000	82	60,800	76
691	6250	6.30							71,200	92	70,200	92	67,600	92	65,000	90
718	6500	6.81							75,000	105	73,600	105	71,200	105	69,200	105
746	6750	7.34							78,400	115	77,200	115	75,000	115	72,800	115
774	7000	7.89									80,600	130	78,800	130	76,600	130
830	7500	9.06											85,800	160	83,400	160
885	8000	10.32													90,800	195
938	8500	11.63													98,000	230
996	9000	13.05													105,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
608	5500	4.88	38,000	39												
636	5750	5.33	49,000	54	31,000	36										
663	6000	5.80	55,800	70	46,600	56										
691	6250	6.30	61,800	84	55,400	70										
718	6500	6.81	66,200	100	61,800	88	41,200	60								
746	6750	7.34	70,200	115	66,800	110	53,800	82								
774	7000	7.89	74,200	130	71,400	125	62,400	100								
830	7500	9.06	81,600	160	79,600	160	74,000	145	63,000	120						
885	8000	10.32	88,800	195	87,200	195	83,000	185	76,800	170	64,000	135				
938	8500	11.63	96,000	230	94,200	230	90,800	230	86,400	220	79,200	195	66,200	160		
996	9000	13.05	103,000	280	101,000	280	98,400	280	94,200	270	90,200	260	82,800	230	69,600	190
1050	9500	14.53	110,000	330	109,000	330	105,000	330	102,000	330	98,800	320	94,000	300	88,400	270
1105	10000	16.20			116,000	380	113,000	380	110,000	380	106,000	380	103,000	370	98,600	340

Double Inlet

No. 9 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
99	1050	0.179	10,700	0.40												
114	1200	0.233	16,300	0.82												
133	1400	0.316	20,600	1.4												
152	1600	0.412	21,600	2.0	20,200	1.8										
171	1800	0.520	28,200	2.9	25,100	2.9	16,600	1.85								
190	2000	0.645			29,600	4.2	26,000	3.6								
208	2200	0.780			33,600	5.5	31,000	5.4	26,200	4.3						
228	2400	0.930			37,600	7.1	35,000	7.1	32,400	6.5	26,600	5.2				
246	2600	1.09			41,200	9.1	39,000	9.1	37,000	8.8	34,000	8	27,400	6.3		
265	2800	1.26					43,000	11	41,000	11.2	39,200	11	35,800	9.6	28,800	7.6
284	3000	1.45					46,800	14	45,000	14	43,400	14	41,200	13.0	37,800	12.0
303	3200	1.65					50,600	17	48,800	17	47,400	17	45,600	16.5	43,600	15.5
322	3400	1.86							52,800	20	51,200	20	49,600	20	48,400	20
341	3600	2.10							56,600	24	55,000	24	53,600	24	52,200	24
360	3800	2.32									59,000	29	57,800	29	56,200	29
379	4000	2.58									62,600	33	61,600	33	60,000	33
398	4200	2.85											65,400	38	64,000	38
417	4400	3.13											69,000	44	67,800	44
436	4600	3.41													71,800	50
455	4800	3.70													75,600	58

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
284	3000	1.45	31,600	9.6												
303	3200	1.65	40,200	14.0												
322	3400	1.86	46,000	18.5	37,600	14.5										
341	3600	2.10	50,800	24	45,800	20	34,200	15								
360	3800	2.32	55,000	28	51,600	26	44,800	22								
379	4000	2.58	58,600	33	56,000	32	51,600	29	43,400	23.5						
398	4200	2.85	62,800	38	60,400	38	57,200	36	52,200	32	42,000	25				
417	4400	3.13	67,000	44	64,400	44	62,000	43	58,400	40	52,400	35				
436	4600	3.41	70,800	50	68,600	50	66,200	50	63,800	48	59,400	44	39,600	29		
455	4800	3.70	74,400	58	72,400	58	70,200	58	68,200	56	64,800	52	52,800	41		
474	5000	4.05	78,200	66	76,200	66	74,400	66	72,000	64	69,400	62	61,400	52	40,400	35
498	5250	4.41			81,000	76	79,200	76	77,000	76	75,000	71	69,400	66	57,800	54
522	5500	4.88			85,600	86	84,000	86	81,800	86	80,000	86	76,000	82	68,200	70
545	5750	5.33			90,400	98	88,600	98	87,000	98	85,200	98	81,600	96	76,000	88
569	6000	5.80					93,600	110	91,600	110	90,000	110	86,600	110	82,200	105
593	6250	6.30							96,400	125	95,000	125	91,600	125	88,000	125
616	6500	6.81							102,000	140	99,600	140	95,400	140	93,600	140
640	6750	7.31							106,000	160	105,000	160	102,000	160	98,600	160
663	7000	7.89									109,000	180	106,000	180	104,000	180
710	7500	9.06											116,000	220	113,000	220
758	8000	10.32													123,000	270
806	8500	11.63													133,000	320
852	9000	13.05													142,000	380

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.08 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
522	5500	4.88	51,400	54												
545	5750	5.33	66,200	74	42,000	48										
569	6000	5.80	75,600	94	63,000	78										
593	6250	6.30	83,600	110	75,000	96										
616	6500	6.81	89,600	135	83,600	120	55,800	82								
640	6750	7.31	95,000	155	90,600	145	72,800	110								
663	7000	7.89	101,000	175	96,600	170	84,200	135								
710	7500	9.06	110,000	220	108,000	215	100,000	195	85,200	165						
758	8000	10.32	120,000	270	118,000	270	112,000	250	104,000	230	86,400	190				
806	8500	11.63	130,000	320	127,000	320	123,000	310	117,000	300	107,000	270	89,100	220		
852	9000	13.05	140,000	380	137,000	380	133,000	380	127,000	370	122,000	250	112,000	310	94,000	260
900	9500	14.53	149,000	440	147,000	440	142,000	440	138,000	440	134,000	430	127,000	400	117,000	360
950	10000	16.20			156,000	520	153,000	520	149,000	520	144,000	520	140,000	500	134,000	470

Double Inlet

No. 10 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
87	1050	0.179	14,000	0.52												
100	1200	0.233	21,400	1.10												
116	1400	0.316	27,000	1.85												
133	1600	0.412	32,200	2.6	26,600	2.3										
149	1800	0.520	37,000	3.8	33,400	3.8	21,800	2.4								
166	2000	0.645			38,800	5.5	34,200	4.7								
183	2200	0.78			44,000	7.2	40,600	7.1	31,400	5.6						
199	2400	0.93			49,400	9.3	46,000	9.3	42,600	8.6	34,800	6.8				
216	2600	1.09			54,000	12	51,200	12	48,600	11.5	44,600	10.5	36,000	8.3		
232	2800	1.26					56,400	15	53,800	15	51,400	14	47,000	12.5	37,800	10.0
249	3000	1.45					61,400	18	59,000	18	56,800	18	54,000	17	49,600	15.5
266	3200	1.65					66,400	22	64,000	22	62,200	22	59,800	22	57,200	20
282	3400	1.86							69,200	26	67,200	26	65,200	26	63,400	26
299	3600	2.10							74,000	32	72,200	32	70,400	32	68,400	32
315	3800	2.32									77,400	38	75,800	38	73,800	38
332	4000	2.58									82,200	43	80,800	43	78,800	43
349	4200	2.85											85,800	50	84,000	50
365	4400	3.13											99,200	58	89,000	58
382	4600	3.41													94,200	66
399	4800	3.7													99,200	76

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
249	3000	1.45	41,400	12.5												
266	3200	1.65	52,800	18.5												
282	3400	1.86	60,400	24	49,400	19										
299	3600	2.10	66,600	31	60,000	27	45,000	20								
315	3800	2.32	72,000	37	67,600	34	58,800	29								
332	4000	2.58	77,000	43	73,400	42	67,800	38	57,000	31						
349	4200	2.85	82,400	50	79,200	49	75,000	47	68,400	42	55,200	33				
365	4400	3.13	87,800	58	84,600	58	81,400	56	76,600	52	68,800	46				
382	4600	3.41	93,000	66	90,000	66	86,800	66	83,800	64	78,000	58	52,000	38		
399	4800	3.70	97,600	76	94,800	76	92,000	76	89,600	74	85,000	68	69,200	54		
415	5000	4.05	103,000	86	100,000	86	97,400	86	94,400	86	91,000	82	80,600	70	52,800	46
436	5250	4.44			106,000	98	104,000	98	101,000	98	98,400	96	91,200	86	76,000	70
456	5500	4.88			112,000	110	110,000	110	107,000	110	105,000	110	99,800	110	89,600	92
477	5750	5.33			119,000	130	116,000	130	114,000	130	112,000	130	107,000	130	99,800	115
498	6000	5.80					123,000	145	120,000	145	118,000	145	114,000	145	108,000	135
519	6250	6.30							127,200	165	125,000	165	120,000	165	116,000	160
540	6500	6.81							133,000	185	131,000	185	126,000	185	123,000	185
560	6750	7.34							139,000	210	137,000	210	133,000	210	129,000	210
581	7000	7.89									143,000	230	140,000	230	136,000	230
622	7500	9.06											152,000	290	148,000	290
661	8000	10.32													161,000	350
705	8500	11.63													174,000	420
746	9000	13.05													186,000	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
456	5500	4.88	67,600	70												
477	5750	5.33	87,000	98	55,000	64										
498	6000	5.80	99,200	125	82,600	100										
519	6250	6.30	106,000	160	98,400	125										
540	6500	6.81	118,000	180	110,000	160	73,200	110								
560	6750	7.34	125,000	200	119,000	190	95,600	150								
581	7000	7.89	132,000	230	127,000	220	111,000	180								
622	7500	9.06	145,000	290	141,000	280	132,000	260	112,000	210						
661	8000	10.32	158,000	350	155,000	350	147,000	330	137,000	300	107,000	240				
705	8500	11.63	172,000	420	167,000	420	161,000	410	151,000	390	141,000	350	117,400	290		
746	9000	13.05	183,000	500	180,000	500	175,000	500	167,000	480	160,000	450	147,000	410	124,000	340
788	9500	14.53	196,000	580	193,000	580	187,000	580	182,000	580	175,000	570	167,000	520	154,000	470
830	10000	16.2			206,000	680	200,000	680	195,000	680	189,000	680	183,000	650	175,000	610

Double Inlet

No. 11 Multivane Fan — Design 2

Double Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
77	1050	0.179	17,500	0.66												
88	1200	0.235	26,800	1.4												
103	1400	0.316	33,800	2.3												
118	1600	0.412	40,400	3.3	33,400	2.9										
132	1800	0.520	46,600	4.8	41,800	4.8	27,400	3.0								
147	2000	0.645			48,800	6.9	42,800	6.0								
162	2200	0.780			55,400	9.1	51,200	8.9	43,200	7.1						
177	2400	0.930			62,000	12	57,600	12.0	53,400	11.0	43,800	8.6				
191	2600	1.09			68,000	15	64,400	15.0	61,000	14.5	56,000	13	45,200	10.5		
206	2800	1.26					71,000	18.5	67,600	18.5	64,400	18	59,200	16	47,600	12.5
221	3000	1.45					77,200	23	74,400	23	71,400	23	68,000	22	62,400	19
235	3200	1.65					83,400	28	80,600	28	78,200	28	75,200	27	72,000	26
250	3400	1.86							87,000	33	84,400	33	81,800	33	79,600	33
265	3600	2.10							93,000	40	90,600	40	88,400	40	86,200	40
279	3800	2.32									97,400	48	95,400	48	92,800	48
294	4000	2.58									103,000	54	102,000	54	99,000	54
309	4200	2.85											108,000	62	106,000	62
324	4400	3.13											111,000	72	112,000	72
338	4600	3.41													118,000	84
353	4800	3.70													125,000	94

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
221	3000	1.45	52,000	16												
235	3200	1.65	66,400	23												
250	3400	1.86	76,000	31	62,000	24										
265	3600	2.10	83,800	39	75,400	34	56,600	25								
279	3800	2.32	90,600	46	85,200	43	74,000	36								
294	4000	2.58	96,600	54	92,400	54	85,000	47	72,000	39						
309	4200	2.85	104,000	62	99,600	62	94,400	60	86,000	52	69,400	42				
324	4400	3.13	111,000	72	106,000	72	102,000	70	96,000	66	86,400	58				
338	4600	3.41	117,000	84	113,000	84	109,000	82	105,000	78	98,000	72	65,400	47		
353	4800	3.70	123,000	94	119,000	94	116,000	94	113,000	92	107,000	86	87,000	68		
368	5000	4.05	129,000	110	126,000	110	122,000	110	119,000	110	115,000	105	101,000	88	66,400	58
386	5250	4.41			134,000	125	131,000	125	127,000	125	124,000	120	115,000	110	95,400	88
404	5500	4.88			141,000	140	139,000	140	135,000	140	132,000	140	125,000	130	113,000	115
423	5750	5.33			149,000	165	146,000	165	143,000	165	141,000	165	135,000	160	125,000	145
441	6000	5.80							151,000	185	149,000	185	143,000	185	136,000	170
459	6250	6.30							159,000	210	157,000	210	151,000	200	145,000	200
478	6500	6.81							167,000	230	164,000	230	159,000	230	154,000	230
496	6750	7.34							175,000	260	172,000	260	167,000	260	163,000	260
514	7000	7.89									180,000	290	176,000	290	171,000	290
550	7500	9.06											191,000	360	186,000	360
587	8000	10.32													202,000	440
624	8500	11.63													218,000	520
660	9000	13.05													231,000	620

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
404	5500	4.88	84,800	88												
423	5750	5.33	109,000	125	69,200	80										
441	6000	5.80	125,000	155	104,000	130										
459	6250	6.30	138,000	190	124,000	160										
478	6500	6.81	148,000	220	138,000	200	92,000	135								
496	6750	7.34	157,000	260	149,000	240	120,000	185								
514	7000	7.89	166,000	290	160,000	280	139,000	220								
550	7500	9.06	182,000	360	178,000	360	166,000	320	141,000	270						
587	8000	10.32	198,000	440	195,000	440	185,000	420	172,000	380	142,000	310				
624	8500	11.63	214,000	520	210,000	520	202,000	520	193,000	490	177,000	440	148,000	360		
660	9000	13.05	230,000	620	226,000	620	220,000	620	210,000	610	202,000	570	185,000	510	155,000	390
697	9500	14.53	246,000	730	242,000	730	234,000	730	228,000	730	220,000	730	210,000	660	193,000	600
733	10000	16.20			258,000	860	252,000	860	246,000	860	238,000	850	230,000	820	220,000	770

Double Inlet

No. 12 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
70	1050	0.179	21,800	0.82												
80	1200	0.233	33,200	1.7												
93	1400	0.316	41,800	2.9												
106	1600	0.412	50,000	4.1	11,200	3.6										
120	1800	0.520	57,600	7.8	51,800	6.0	34,000	3.8								
133	2000	0.645			60,400	8.5	53,000	7.3								
146	2200	0.780			68,400	11.0	63,200	11.0	53,400	8.8						
159	2400	0.930			76,800	14.5	71,400	14.5	66,000	13	51,000	10.5				
173	2600	1.09			84,000	18.5	79,600	18.5	75,600	18	69,400	16	55,800	13.0		
186	2800	1.26					87,600	23	83,600	23	79,800	22	73,800	19.5	58,800	15.5
199	3000	1.45					95,400	28	91,800	28	88,200	28	84,000	27	77,000	24
212	3200	1.65					103,000	35	99,600	35	96,600	35	93,000	34	89,000	32
226	3400	1.86							108,000	41	104,000	41	101,000	41	98,400	41
239	3600	2.10							115,000	49	112,000	49	109,000	49	106,000	49
252	3800	2.32									120,000	60	118,000	60	115,000	60
265	4000	2.58									128,000	68	126,000	68	122,000	68
279	4200	2.85											133,000	78	131,000	78
299	4400	3.13											141,000	90	138,000	90
305	4600	3.41													146,000	104
318	4800	3.70													154,000	116

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
199	3000	1.45	64,200	19.5												
212	3200	1.65	82,000	29												
226	3400	1.86	93,800	38	76,800	30										
239	3600	2.10	104,000	48	93,200	42	70,000	31								
252	3800	2.32	112,000	58	105,000	54	91,200	45								
265	4000	2.58	120,000	68	114,000	66	105,000	58	88,600	48						
279	4200	2.85	128,000	78	123,000	76	117,000	74	106,000	64	85,600	52				
299	4400	3.13	137,000	90	131,000	90	126,000	88	119,000	80	107,000	70				
305	4600	3.41	144,000	105	140,000	105	135,000	100	130,000	98	121,000	88	80,800	58		
318	4800	3.70	152,000	115	147,000	115	143,000	115	139,000	110	132,000	110	108,000	84		
332	5000	4.05	160,000	130	155,000	130	151,000	130	147,000	130	142,000	130	125,000	110	82,200	72
348	5250	4.44			165,000	150	162,000	150	157,000	150	153,000	150	142,000	135	118,000	110
365	5500	4.88			174,000	175	171,000	175	167,000	175	163,000	175	155,000	165	139,000	145
381	5750	5.33			184,000	200	181,000	200	177,000	200	174,000	200	166,000	195	155,000	180
398	6000	5.80					191,000	230	187,000	230	184,000	230	177,000	230	168,000	210
414	6250	6.30							197,000	250	194,000	250	187,000	250	180,000	250
431	6500	6.81							208,000	290	204,000	290	197,000	290	191,000	290
448	6750	7.34							216,000	320	214,000	320	208,000	320	200,000	320
464	7000	7.89									222,000	360	218,000	360	212,000	360
497	7500	9.06											236,000	440	230,000	440
531	8000	10.32													250,000	540
564	8500	11.63													270,000	650
597	9000	13.05													290,000	770

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
365	5500	4.88	105,000	110												
381	5750	5.33	135,000	150	85,600	100										
398	6000	5.80	154,000	190	129,000	155										
414	6250	6.30	170,000	230	153,000	195										
431	6500	6.81	183,000	280	171,000	240	114,000	165								
448	6750	7.34	194,000	320	185,000	290	148,000	230								
464	7000	7.89	206,000	360	197,000	340	172,000	280								
497	7500	9.06	226,000	440	220,000	440	204,000	400	174,000	330						
531	8000	10.32	214,000	540	240,000	540	228,000	510	212,000	470	176,000	380				
564	8500	11.63	266,000	650	260,000	650	250,000	640	238,000	610	218,000	540	182,400	450		
597	9000	13.05	284,000	770	280,000	770	272,000	770	260,000	750	248,000	710	228,000	640	192,000	530
630	9500	14.53	304,000	900	300,000	900	290,000	900	282,000	900	272,000	880	260,000	820	238,000	740
664	10000	16.2			320,000	1060	312,000	1060	304,000	1060	294,000	1050	284,000	1020	272,000	950

Double Inlet # No. 13 Multivane Fan—Design 2 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
63	1050	0.179	26,100	0.99												
72	1200	0.233	40,400	2.00												
84	1400	0.316	50,800	3.50												
97	1600	0.412	60,600	4.95	50,000	4.4										
109	1800	0.520	69,800	7.2	62,800	7.2	41,200	4.6								
121	2000	0.645			73,200	10.5	64,400	8.9								
133	2200	0.78			83,000	13.5	76,800	13.5	64,800	16.5						
145	2400	0.93			93,000	17.5	86,600	17.5	80,200	16.0	65,600	13				
157	2600	1.09			102,000	22	96,400	22	91,600	22	84,200	20	67,800	15.5		
169	2800	1.26					106,000	28	101,000	28	96,600	27	88,600	24	71,400	19
181	3000	1.45					116,000	34	111,000	34	107,000	34	102,000	32	93,600	29
193	3200	1.65					125,000	42	121,000	42	117,000	42	113,000	41	108,000	39
205	3400	1.86							131,000	50	127,000	50	123,000	50	120,000	50
217	3600	2.10							140,000	60	136,000	60	133,000	60	129,000	60
229	3800	2.32									146,000	70	143,000	70	139,000	70
241	4000	2.58									155,000	82	152,000	82	149,000	82
253	4200	2.85											162,000	94	158,000	94
265	4400	3.13											171,000	108	168,000	110
277	4600	3.41													178,000	125
289	4800	3.7													187,000	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
181	3000	1.45	78,000	24												
193	3200	1.65	99,600	35												
205	3400	1.86	114,000	46	93,200	36										
217	3600	2.10	126,000	58	113,000	50	84,600	38								
229	3800	2.32	136,000	70	128,000	64	111,000	54								
241	4000	2.58	145,000	82	139,000	80	158,000	72	107,000	58						
253	4200	2.85	155,000	94	149,000	94	142,000	90	129,000	78	104,000	62				
265	4400	3.13	166,000	110	159,000	110	153,000	110	144,000	98	130,000	86				
277	4600	3.41	175,000	125	170,000	125	164,000	125	158,000	115	147,000	110	98,000	72		
289	4800	3.70	184,000	140	179,000	140	174,000	140	169,000	140	160,000	130	131,000	100		
301	5000	4.05	194,000	160	189,000	160	184,000	160	178,000	160	173,000	155	152,000	130	99,600	86
316	5250	4.44			200,000	190	196,000	190	190,000	190	186,000	185	172,000	165	143,000	130
332	5500	4.88			212,000	210	208,000	210	202,000	210	198,000	210	188,000	200	169,000	175
347	5750	5.33			224,000	240	220,000	240	216,000	240	210,000	240	202,000	240	188,000	220
362	6000	5.80							226,000	270	224,000	270	214,000	270	204,000	260
377	6250	6.30							238,000	310	236,000	310	226,000	310	218,000	300
392	6500	6.81							252,000	350	246,000	350	238,000	350	232,000	350
407	6750	7.34							262,000	390	258,000	390	252,000	390	244,000	390
422	7000	7.89									270,000	440	264,000	440	256,000	440
452	7500	9.06											286,000	540	280,000	540
482	8000	10.32													304,000	670
512	8500	11.63													328,000	780
542	9000	13.05													352,000	940

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
332	5500	4.88	127,000	130												
347	5750	5.33	164,000	185	104,000	120										
362	6000	5.80	187,000	230	156,000	190										
377	6250	6.30	206,000	280	186,000	240										
392	6500	6.81	222,000	340	208,000	300	138,000	200								
407	6750	7.34	236,000	380	229,000	360	180,000	280								
422	7000	7.89	248,000	430	240,000	410	208,000	340								
452	7500	9.06	271,000	540	266,000	540	248,000	480	210,000	400						
482	8000	10.32	296,000	670	292,000	660	278,000	630	258,000	570	214,000	460				
512	8500	11.63	322,000	780	316,000	780	304,000	770	290,000	740	266,000	660	220,000	540		
542	9000	13.05	346,000	940	340,000	940	330,000	940	316,000	910	302,000	860	278,000	770	234,000	640
572	9500	14.53	370,000	1100	364,000	1100	352,000	1100	342,000	1090	330,000	1070	314,000	990	290,000	890
602	10000	16.2			386,000	1290	378,000	1290	368,000	1290	356,000	1280	346,000	1230	330,000	1150

Double Inlet | **Double Width**

No. 14 Multivane Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1050	0.179	31,600	1.2												
67	1200	0.233	48,200	2.4												
78	1400	0.316	60,600	4.2												
89	1600	0.412	72,400	6.0	59,600	5.3										
100	1800	0.520	83,200	8.6	75,000	8.6	49,000	5.4								
111	2000	0.645			87,400	12	76,800	10.5								
122	2200	0.780			99,200	16	91,600	16	77,400	13						
133	2400	0.930			111,000	21	103,000	21	95,800	19	78,400	15.5				
144	2600	1.00			122,000	27	115,000	27	109,000	26	100,000	24	81,000	18.5		
155	2800	1.26					127,000	33	121,000	33	116,000	32	106,000	28	85,200	23
166	3000	1.45					138,000	41	133,000	41	128,000	41	122,000	39	112,000	35
177	3200	1.65					149,000	50	144,000	50	140,000	50	135,000	49	129,000	46
188	3400	1.86							156,000	60	151,000	60	146,000	60	143,000	60
199	3600	2.10							167,000	72	162,000	72	156,000	72	154,200	72
210	3800	2.32									174,000	86	171,000	86	166,000	86
221	4000	2.58									185,000	98	182,000	98	177,000	98
232	4200	2.85											193,000	110	189,000	110
243	4400	3.13											204,000	130	200,000	130
254	4600	3.41													212,000	150
266	4800	3.7													224,000	170

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
166	3000	1.45	93,000	28												
177	3200	1.65	119,000	42												
188	3400	1.86	136,000	56	111,000	43										
199	3600	2.10	150,000	70	135,000	60	101,000	45								
210	3800	2.32	162,000	82	152,000	78	132,000	66								
221	4000	2.58	173,000	98	165,000	98	152,000	82	128,000	70						
232	4200	2.85	186,000	110	178,000	110	169,000	110	154,000	94	124,000	74				
243	4400	3.13	198,000	130	190,000	130	183,000	130	173,000	115	155,000	105				
254	4600	3.41	210,000	150	202,000	150	196,000	150	188,000	140	175,000	120	117,000	84		
266	4800	3.70	220,000	170	214,000	170	208,000	170	202,000	165	191,000	150	156,000	120		
277	5000	4.05	232,000	190	226,000	190	220,000	190	212,000	190	204,000	185	181,000	155	119,000	105
290	5250	4.44			240,000	220	234,000	220	228,000	220	222,000	220	204,000	195	171,000	160
304	5500	4.88			252,000	250	248,000	250	242,000	250	236,000	250	224,000	240	202,000	210
318	5750	5.33			268,000	290	262,000	290	258,000	290	252,000	290	242,000	280	224,000	260
332	6000	5.80							270,000	330	266,000	330	256,000	330	242,000	310
346	6250	6.30							284,000	370	280,000	370	270,000	370	260,000	360
359	6500	6.81							300,000	420	294,000	420	284,000	420	276,000	410
373	6750	7.34							314,000	470	308,000	470	300,000	470	292,000	470
387	7000	7.89									322,000	530	314,000	530	306,000	530
414	7500	9.06											342,000	640	334,000	640
442	8000	10.32													362,000	780
470	8500	11.63													392,000	940
497	9000	13.05													420,000	1120

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
304	5500	4.88	152,000	155												
318	5750	5.33	196,000	220	121,000	145										
332	6000	5.80	224,000	280	186,000	230										
346	6250	6.30	246,000	340	222,000	280										
359	6500	6.81	264,000	400	248,000	350	165,000	240								
373	6750	7.34	280,000	460	268,000	420	216,000	330								
387	7000	7.89	296,000	520	286,000	500	248,000	400								
414	7500	9.06	326,000	640	318,000	640	296,000	580	252,000	480						
442	8000	10.32	354,000	780	348,000	780	332,000	740	308,000	680	256,000	550				
470	8500	11.63	384,000	940	376,000	940	362,000	920	346,000	880	316,000	790	204,000	640		
497	9000	13.05	412,000	1120	406,000	1120	394,000	1120	376,000	1090	360,000	1020	330,000	920	278,000	760
525	9500	14.53	440,000	1310	434,000	1310	420,000	1310	408,000	1310	394,000	1280	376,000	1180	340,000	1060
553	10000	16.2			462,000	1540	450,000	1540	440,000	1540	426,000	1520	412,000	1470	394,000	1380

Double Inlet

No. 15 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
51	1050	0.179	37,000	1.4												
62	1200	0.233	56,400	2.9												
72	1400	0.316	71,000	4.9												
82	1600	0.412	81,800	6.9	70,000	6.2										
92	1800	0.520	97,600	10	89,600	10.0	57,600	6.4								
102	2000	0.615			103,000	14.5	90,200	12.5								
113	2200	0.780			116,000	19	107,000	19	90,800	15						
123	2400	0.930			130,000	25	121,000	25	112,000	23	91,800	18				
133	2600	1.09			143,000	31	135,000	31	128,000	31	117,000	28	95,000	22		
143	2800	1.26					149,000	39	142,000	39	136,000	37	124,000	33	100,000	26
153	3000	1.45					162,000	48	156,000	48	150,000	48	143,000	45	131,000	41
163	3200	1.65					175,000	58	169,000	58	164,000	58	158,000	58	151,000	54
174	3400	1.86							183,000	70	177,000	70	172,000	70	167,000	70
184	3600	2.10							196,000	84	191,000	84	186,000	84	181,000	84
194	3800	2.32									204,000	100	200,000	100	195,000	100
204	4000	2.58									216,000	115	214,000	115	208,000	115
215	4200	2.85											226,000	130	222,000	130
225	4400	3.13											240,000	150	234,000	150
235	4600	3.41													248,000	175
245	4800	3.70													262,000	200

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
153	3000	1.45	100,000	33												
163	3200	1.65	139,000	49												
174	3400	1.86	160,000	64	130,000	50										
184	3600	2.10	176,000	82	158,000	70	119,000	52								
194	3800	2.32	190,000	98	179,000	90	155,000	76								
204	4000	2.58	204,000	115	194,000	110	179,000	100	150,000	82						
215	4200	2.85	218,000	130	210,000	130	198,000	130	181,000	105	146,000	88				
225	4400	3.13	232,000	150	224,000	150	214,000	150	202,000	135	181,000	120				
235	4600	3.41	246,000	175	238,000	175	230,000	170	222,000	170	206,000	150	137,000	100		
245	4800	3.70	258,000	200	250,000	200	244,000	200	236,000	190	224,000	180	183,000	145		
255	5000	4.05	270,000	230	264,000	230	258,000	230	250,000	220	240,000	220	212,000	185	140,000	120
268	5250	4.44			280,000	260	274,000	260	266,000	260	260,000	260	240,000	230	200,000	185
281	5500	4.88			296,000	300	290,000	300	284,000	300	278,000	300	264,000	280	236,000	250
294	5750	5.33			314,000	340	308,000	340	302,000	340	296,000	340	284,000	330	264,000	310
306	6000	5.80							313,000	380	312,000	380	300,000	380	284,000	360
319	6250	6.30							334,000	430	330,000	430	316,000	430	304,000	420
332	6500	6.81							352,000	490	346,000	490	334,000	490	324,000	490
345	6750	7.34							368,000	550	362,000	550	352,000	550	340,000	550
357	7000	7.89									378,000	620	368,000	620	360,000	620
382	7500	9.06											402,000	760	392,000	760
408	8000	10.32													426,000	920
433	8500	11.63													460,000	1100
459	9000	13.05													492,000	1310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
281	5500	4.88	178,000	185												
294	5750	5.33	230,000	200	146,000	170										
306	6000	5.80	262,000	330	218,000	270										
319	6250	6.30	290,000	390	260,000	330										
332	6500	6.81	310,000	470	290,000	420	193,000	280								
345	6750	7.34	330,000	540	314,000	500	252,000	390								
357	7000	7.89	348,000	600	334,000	580	292,000	470								
382	7500	9.06	382,000	760	372,000	750	348,000	680	296,000	560						
408	8000	10.32	416,000	920	408,000	920	392,000	870	360,000	800	300,000	640				
433	8500	11.63	450,000	1100	442,000	1100	426,000	1080	401,000	1030	372,000	920	310,000	760		
459	9000	13.05	484,000	1310	476,000	1310	462,000	1310	442,000	1280	424,000	1200	388,000	1080	326,000	890
485	9500	14.53	516,000	1530	510,000	1530	492,000	1530	480,000	1530	464,000	1500	440,000	1390	406,000	1250
510	10000	16.20			542,000	1800	528,000	1800	516,000	1800	500,000	1790	484,000	1730	462,000	1610

Double Inlet **Double Width**

No. 16 Multivane Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
50	1050	0.179	43,000	1.6												
57	1200	0.233	65,200	3.3												
66	1400	0.316	82,000	5.7												
76	1600	0.412	98,000	8.0	80,800	7.1										
85	1800	0.520	113,000	11.5	102,000	11.5	66,400	7.4								
95	2000	0.645			119,000	16.5	104,000	14.5								
104	2200	0.780			135,000	22	124,000	22	105,000	17						
113	2400	0.930			151,000	28	140,000	28	130,000	26	106,000	21				
123	2600	1.09			165,000	37	156,000	37	148,000	35	136,000	32	110,000	25		
133	2800	1.26					172,000	45	164,000	45	157,000	43	143,000	38	116,000	31
142	3000	1.45					187,000	56	180,000	56	173,000	56	165,000	52	151,000	47
152	3200	1.65					202,000	68	195,000	68	189,000	68	183,000	66	175,000	62
161	3400	1.86							212,000	80	206,000	80	199,000	80	193,000	80
170	3600	2.10							226,000	96	220,000	96	214,000	96	210,000	96
180	3800	2.32									236,000	115	232,000	115	226,000	115
189	4000	2.58									250,000	130	246,000	130	240,000	130
199	4200	2.85											262,000	150	256,000	150
208	4400	3.13											276,000	175	272,000	175
218	4600	3.41													288,000	200
227	4800	3.70													302,000	230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
142	3000	1.45	126,000	38												
152	3200	1.65	161,000	56												
161	3400	1.86	184,000	74	151,000	58										
170	3600	2.10	204,000	94	183,000	82	137,000	62								
180	3800	2.32	220,000	110	206,000	105	179,000	88								
189	4000	2.58	234,000	130	224,000	130	206,000	115	174,000	94						
199	4200	2.85	252,000	150	242,000	150	230,000	145	210,000	130	168,000	100				
208	4400	3.13	268,000	175	258,000	175	248,000	170	234,000	160	210,000	140				
218	4600	3.41	284,000	200	274,000	200	266,000	200	256,000	190	238,000	175	159,000	115		
227	4800	3.70	298,000	230	290,000	230	282,000	230	274,000	220	260,000	210	212,000	165		
237	5000	4.05	314,000	260	306,000	260	298,000	260	288,000	200	278,000	250	246,000	210	161,000	140
248	5250	4.44			324,000	300	318,000	300	308,000	300	300,000	290	278,000	260	232,000	210
260	5500	4.88			344,000	350	336,000	350	328,000	340	320,000	340	304,000	330	274,000	280
272	5750	5.33			362,000	390	354,000	390	348,000	390	342,000	390	328,000	390	304,000	350
284	6000	5.80							368,000	440	360,000	440	348,000	440	330,000	420
296	6250	6.30							386,000	500	380,000	500	366,000	500	352,000	490
308	6500	6.81							406,000	560	400,000	560	386,000	560	374,000	560
319	6750	7.34							424,000	640	418,000	640	406,000	640	394,000	640
331	7000	7.89									438,000	720	426,000	720	414,000	720
355	7500	9.06											464,000	870	452,000	870
378	8000	10.32													492,000	1080
402	8500	11.63													530,000	1270
426	9000	13.05													568,000	1520

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
260	5500	4.88	206,000	210												
272	5750	5.33	266,000	300	168,000	195										
284	6000	5.80	302,000	380	252,000	310										
296	6250	6.30	334,000	450	300,000	390										
308	6500	6.81	360,000	510	336,000	480	224,000	330								
319	6750	7.34	380,000	620	362,000	580	292,000	450								
331	7000	7.89	402,000	700	388,000	670	338,000	540								
355	7500	9.06	442,000	870	432,000	860	402,000	780	342,000	650						
378	8000	10.32	480,000	1080	472,000	1060	450,000	1000	416,000	920	346,000	740				
402	8500	11.63	520,000	1270	510,000	1270	492,000	1250	468,000	1190	428,000	1070	358,000	880		
426	9000	13.05	560,000	1520	550,000	1520	554,000	1520	510,000	1180	488,000	1390	448,000	1250	378,000	1030
449	9500	14.53	598,000	1770	588,000	1770	570,000	1770	554,000	1770	536,000	1730	510,000	1600	468,000	1440
473	10000	16.2			626,000	2080	612,000	2080	596,000	2080	576,000	2000	560,000	2000	536,000	1870

Double Inlet

No. 17 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
46	1050	0.179	19,100	1.85												
53	1200	0.233	75,000	3.8												
62	1400	0.316	94,400	6.5												
71	1600	0.412	113,000	9.2	93,000	8.2										
80	1800	0.520	130,000	13.5	117,000	13.5	76,600	8.5								
89	2000	0.645			136,000	19	120,000	16.5								
98	2200	0.78			155,000	25	143,000	25	121,000	20						
106	2400	0.93			173,000	33	161,000	33	149,000	30	122,000	24				
115	2600	1.09			189,000	42	180,000	42	170,000	41	157,000	37	126,000	29		
124	2800	1.26					198,000	52	189,000	42	180,000	50	165,000	41	133,000	35
133	3000	1.45					216,000	64	208,000	64	199,000	64	189,000	60	174,000	54
142	3200	1.65					234,000	78	224,000	78	218,000	78	210,000	76	200,000	72
151	3400	1.86							244,000	92	236,000	92	228,000	92	222,000	92
159	3600	2.10							260,000	110	254,000	110	246,000	110	240,000	110
168	3800	2.32									272,000	130	266,000	130	258,000	130
177	4000	2.58									288,000	150	284,000	150	276,000	150
186	4200	2.85											302,000	175	294,000	175
195	4400	3.13											318,000	200	312,000	200
204	4600	3.41													330,000	230
213	4800	3.7													348,000	260

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
133	3000	1.45	115,000	44												
142	3200	1.65	185,000	66												
151	3400	1.86	212,000	86	173,000	68										
159	3600	2.10	234,000	110	210,000	94	158,000	70								
168	3800	2.32	252,000	130	238,000	120	206,000	100								
177	4000	2.58	270,000	150	258,000	150	238,000	130	200,000	110						
186	4200	2.85	290,000	175	278,000	170	264,000	165	240,000	145	193,000	115				
195	4400	3.13	308,000	200	296,000	200	286,000	200	270,000	180	242,000	160				
204	4600	3.41	326,000	230	316,000	230	304,000	230	294,000	220	274,000	200	182,000	130		
213	4800	3.70	342,000	260	334,000	260	324,000	260	314,000	260	298,000	240	244,000	190		
221	5000	4.05	360,000	300	350,000	300	342,000	300	332,000	300	320,000	290	282,000	240	186,000	160
232	5250	4.44			374,000	350	364,000	350	354,000	350	346,000	340	320,000	300	266,000	250
244	5500	4.88			394,000	450	388,000	410	376,000	400	368,000	400	350,000	370	314,000	330
255	5750	5.33			416,000	510	408,000	450	400,000	450	392,000	450	376,000	410	350,000	410
266	6000	5.80							422,000	510	414,000	510	398,000	510	378,000	480
277	6250	6.30							444,000	570	438,000	570	422,000	570	406,000	560
288	6500	6.81							468,000	650	460,000	650	444,000	650	430,000	640
299	6750	7.34							488,000	730	482,000	730	468,000	730	454,000	730
310	7000	7.89									504,000	820	490,000	820	478,000	820
332	7500	9.06											534,000	1000	520,000	1000
354	8000	10.32													566,000	1200
376	8500	11.63													610,000	1460
398	9000	13.05													654,000	1740

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
244	5500	4.88	236,000	240												
255	5750	5.33	304,000	340	193,000	220										
266	6000	5.80	348,000	430	290,000	350										
277	6250	6.30	384,000	520	346,000	440										
288	6500	6.81	412,000	630	386,000	550	258,000	370								
299	6750	7.34	438,000	710	416,000	660	336,000	510								
310	7000	7.89	462,000	810	446,000	770	398,000	630								
332	7500	9.06	508,000	1000	496,000	1000	462,000	900	392,000	750						
354	8000	10.32	552,000	1220	544,000	1220	516,000	1150	480,000	1060	398,000	860				
376	8500	11.63	598,000	1460	588,000	1460	566,000	1440	538,000	1370	494,000	1230	412,000	1010		
398	9000	13.05	642,000	1740	632,000	1740	614,000	1740	588,000	1700	562,000	1590	516,000	1430	434,000	1190
420	9500	14.53	688,000	2040	676,000	2040	656,000	2040	638,000	2040	616,000	1990	586,000	1840	540,000	1660
443	10000	16.2			720,000	2400	704,000	2400	684,000	2400	664,000	2380	644,000	2300	614,000	2140

Double Inlet

No. 18 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
44	1050	0 179	56,000	2 1												
50	1200	0 233	85,000	4.3												
58	1400	0 316	107,000	7 4												
66	1600	0 412	128,000	10 5	106,000	9 3										
75	1800	0 520	147,000	15	133,000	15	86,800	9.6								
83	2000	0 645			155,000	22	136,000	19								
91	2200	0.780			175,000	29	162,000	28	137,000	22						
100	2400	0 930			196,000	37	183,000	37	169,000	34	138,000	27				
108	2600	1 09			216,000	47	204,000	47	193,000	46	178,000	42	143,000	33		
116	2800	1 26					224,000	58	214,000	58	204,000	56	187,000	50	151,000	40
124	3000	1 45					244,000	72	236,000	72	226,000	72	216,000	68	197,000	62
133	3200	1 65					264,000	88	254,000	88	248,000	88	238,000	86	228,000	82
141	3400	1 86							276,000	105	268,000	105	260,000	105	252,000	105
149	3600	2 10							296,000	130	288,000	130	280,000	130	272,000	125
158	3800	2 32									308,000	150	302,000	150	294,000	150
166	4000	2 58									328,000	170	322,000	170	314,000	170
174	4200	2 85											342,000	200	334,000	200
182	4400	3 13											360,000	230	354,000	230
191	4600	3 41													374,000	260
199	4800	3 70													394,000	300

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
124	3000	1 45	164,000	50												
133	3200	1 65	210,000	74												
141	3400	1 86	240,000	98	196,000	76										
149	3600	2 10	266,000	125	238,000	110	179,000	80								
158	3800	2 32	286,000	150	270,000	135	234,000	115								
166	4000	2 58	306,000	170	292,000	170	270,000	150	226,000	125						
174	4200	2 85	328,000	200	316,000	195	298,000	190	272,000	165	220,000	130				
182	4400	3 13	350,000	230	336,000	230	324,000	220	304,000	210	274,000	180				
191	4600	3 41	370,000	260	358,000	260	346,000	260	334,000	250	310,000	230	206,000	150		
199	4800	3 70	388,000	300	378,000	300	366,000	300	356,000	290	338,000	270	276,000	210		
207	5000	4 05	108,000	340	398,000	340	388,000	340	376,000	340	362,000	330	320,000	280	210,000	185
218	5250	4 44			422,000	390	414,000	390	402,000	390	392,000	380	362,000	310	302,000	280
228	5500	4 88			448,000	150	438,000	450	428,000	450	418,000	450	396,000	420	356,000	370
239	5750	5 33			472,000	510	462,000	510	454,000	510	444,000	510	426,000	500	396,000	460
249	6000	5 80					488,000	580	478,000	580	470,000	580	452,000	580	430,000	540
259	6250	6 30							504,000	650	496,000	650	478,000	650	460,000	640
270	6500	6 81							530,000	740	520,000	710	504,000	740	488,000	730
280	6750	7 31							551,000	830	546,000	830	530,000	830	514,000	830
290	7000	7 89									570,000	930	556,000	930	540,000	930
311	7500	9 06											606,000	1140	590,000	1140
332	8000	10 32													642,000	1380
352	8500	11 63													692,000	1660
373	9000	13 05													742,000	1080

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
228	5500	4 88	268,000	280												
239	5750	5 33	346,000	390	220,000	250										
249	6000	5 80	394,000	490	328,000	400										
259	6250	6 30	436,000	590	392,000	500										
270	6500	6 81	468,000	710	436,000	630	292,000	410								
280	6750	7 34	496,000	810	472,000	750	380,000	580								
290	7000	7 89	524,000	910	504,000	880	140,000	710								
311	7500	9 06	576,000	1110	562,000	1130	524,000	1020	444,000	850						
332	8000	10 32	626,000	1380	616,000	1380	586,000	1310	544,000	1200	452,000	970				
352	8500	11 63	678,000	1660	666,000	1660	640,000	1630	610,000	1550	560,000	1390	468,000	1140		
373	9000	13 05	728,000	1980	716,000	1980	696,000	1980	666,000	1930	636,000	1810	584,000	1620	402,000	1350
394	9500	14 53	780,000	2320	768,000	2320	744,000	2320	724,000	2300	698,000	2260	604,000	2080	612,000	1880
415	10000	16 2			816,000	2720	796,000	2720	776,000	2720	752,000	2700	728,000	2600	698,000	2440

Double Inlet

No. 20 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure ⅛" Water .0722 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅞" Water .506 ozs. per sq. inch	H.P.
39	1050	0.179	70,600	2.6												
44	1200	0.233	108,000	5.4												
52	1400	0.316	135,000	9.4												
59	1600	0.412	162,000	13	133,000	12										
66	1800	0.520	186,000	19	168,000	19	110,000	12								
74	2000	0.615			195,000	27	172,000	21								
81	2200	0.78			222,000	36	204,000	36	173,000	28						
89	2400	0.93			248,000	47	230,000	47	214,000	43	175,000	34				
96	2600	1.09			272,000	60	258,000	60	244,000	58	221,000	52	181,000	42		
103	2800	1.26					284,000	74	270,000	74	258,000	72	236,000	64	190,000	50
111	3000	1.45					308,000	92	296,000	92	286,000	92	272,000	86	250,000	78
118	3200	1.65					334,000	110	322,000	110	314,000	110	302,000	110	288,000	105
125	3400	1.86							348,000	130	338,000	130	328,000	130	318,000	130
133	3600	2.10							372,000	160	362,000	160	354,000	160	344,000	160
140	3800	2.32									390,000	190	382,000	190	370,000	190
148	4000	2.58									414,000	220	406,000	220	396,000	220
155	4200	2.85											432,000	250	422,000	250
162	4400	3.13											456,000	290	448,000	290
170	4600	3.41													474,000	330
177	4800	3.7													500,000	380

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
111	3000	1.45	208,000	64												
118	3200	1.65	266,000	94												
125	3400	1.86	304,000	125	248,000	96										
133	3600	2.10	336,000	155	302,000	135	226,000	100								
140	3800	2.32	362,000	185	340,000	170	296,000	145								
148	4000	2.58	386,000	220	370,000	210	340,000	190	286,000	155						
155	4200	2.85	414,000	250	398,000	250	378,000	240	344,000	210	278,000	170				
162	4400	3.13	442,000	290	424,000	290	410,000	280	386,000	260	346,000	230				
170	4600	3.41	468,000	330	452,000	330	436,000	330	420,000	320	392,000	290	262,000	190		
177	4800	3.70	490,000	380	476,000	380	464,000	380	450,000	370	428,000	340	348,000	270		
184	5000	4.05	516,000	430	504,000	430	490,000	430	476,000	430	458,000	410	406,000	350	266,000	230
194	5250	4.41			536,000	500	524,000	500	508,000	500	496,000	480	458,000	430	382,000	350
203	5500	4.88			564,000	570	554,000	570	540,000	570	528,000	570	502,000	540	450,000	470
212	5750	5.33			596,000	650	584,000	650	574,000	650	562,000	650	538,000	640	502,000	580
221	6000	5.80							604,000	730	594,000	730	572,000	730	542,000	690
231	6250	6.30							636,000	820	628,000	820	604,000	820	582,000	810
240	6500	6.81							670,000	930	658,000	930	636,000	930	618,000	920
249	6750	7.31							700,000	1050	690,000	1050	670,000	1050	650,000	1050
258	7000	7.89									720,000	1170	702,000	1170	684,000	1170
277	7500	9.06											776,000	1440	746,000	1440
295	8000	10.32													810,000	1750
313	8500	11.63													876,000	2100
332	9000	13.05													936,000	2500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
203	5500	4.88	340,000	350												
212	5750	5.33	436,000	490	278,000	320										
221	6000	5.80	500,000	620	416,000	510										
231	6250	6.30	552,000	750	496,000	630										
240	6500	6.81	592,000	900	552,000	790	368,000	540								
249	6750	7.31	628,000	1020	598,000	950	480,000	740								
258	7000	7.89	664,000	1160	638,000	1110	556,000	900								
277	7500	9.06	728,000	1440	710,000	1430	662,000	1290	562,000	1070						
295	8000	10.32	792,000	1750	778,000	1750	744,000	1650	686,000	1520	570,000	1230				
313	8500	11.63	858,000	2100	840,000	2100	810,000	2060	772,000	1960	708,000	1760	590,000	1440		
332	9000	13.05	920,000	2500	906,000	2600	878,000	2500	840,000	2440	806,000	2280	740,000	2060	622,000	1700
350	9500	14.53	986,000	2920	970,000	2920	940,000	2920	912,000	2920	882,000	2860	840,000	2640	772,000	2380
369	10000	16.2			1,030,000	3440	1,010,000	3440	980,000	3140	950,000	3400	920,000	3280	882,000	3080

Double Inlet **Double Width**

No. 22 Multivane Fan—Design 2

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
35	1050	0.179	87,200	3.3												
40	1200	0.233	133,000	6.7												
46	1400	0.316	167,000	11.5												
53	1600	0.412	200,000	16.5	165,000	14.5										
59	1800	0.520	230,000	24	208,000	24	136,000	15								
66	2000	0.645			242,000	34	212,000	29								
73	2200	0.78			274,000	45	254,000	44	214,000	35						
80	2400	0.93			306,000	58	286,000	58	204,000	54	216,000	42				
86	2600	1.09			336,000	74	318,000	74	302,000	72	278,000	64	224,000	52		
93	2800	1.26					350,000	92	334,000	92	320,000	88	292,000	78	236,000	62
100	3000	1.45					382,000	110	368,000	110	354,000	110	336,000	110	308,000	96
106	3200	1.65					412,000	140	398,000	140	386,000	140	372,000	135	350,000	130
113	3400	1.86							430,000	165	418,000	165	404,000	165	394,000	165
119	3600	2.10							460,000	195	448,000	195	438,000	195	426,000	195
126	3800	2.32									482,000	240	472,000	240	458,000	240
133	4000	2.58									510,000	270	502,000	270	490,000	270
139	4200	2.85											534,000	310	522,000	310
146	4400	3.13											564,000	360	554,000	360
153	4600	3.41													586,000	410
159	4800	3.7													616,000	470

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
100	3000	1.45	258,000	78												
106	3200	1.65	328,000	115												
113	3400	1.86	376,000	150	306,000	120										
119	3600	2.10	111,000	190	372,000	170	280,000	125								
126	3800	2.32	448,000	230	420,000	210	366,000	180								
133	4000	2.58	178,000	270	456,000	260	420,000	230	354,000	190						
139	4200	2.85	512,000	310	492,000	310	466,000	290	426,000	260	342,000	210				
146	4400	3.13	546,000	360	526,000	360	506,000	350	476,000	320	428,000	280				
153	4600	3.41	578,000	410	560,000	410	540,000	400	522,000	390	484,000	360	324,000	230		
159	4800	3.70	608,000	470	590,000	470	572,000	470	556,000	460	528,000	420	430,000	330		
166	5000	4.05	638,000	530	622,000	530	606,000	530	588,000	530	566,000	510	502,000	430	328,000	290
174	5250	4.44			660,000	620	646,000	620	628,000	620	612,000	600	566,000	540	472,000	440
182	5500	4.88			702,000	700	686,000	700	668,000	700	652,000	700	620,000	660	556,000	580
191	5750	5.33			738,000	800	724,000	800	710,000	800	696,000	800	666,000	790	620,000	720
199	6000	5.80							748,000	900	734,000	900	706,000	900	672,000	850
207	6250	6.30							786,000	1010	776,000	1010	746,000	1010	718,000	1000
216	6500	6.81							828,000	1150	812,000	1150	786,000	1150	762,000	1140
224	6750	7.34							864,000	1300	852,000	1300	828,000	1300	804,000	1300
232	7000	7.89									892,000	1450	868,000	1450	844,000	1450
249	7500	9.06											946,000	1780	922,000	1780
265	8000	10.32													1,000,000	2160
282	8500	11.63													1,080,000	2580
299	9000	13.05													1,160,000	3080

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
182	5500	4.88	420,000	430												
191	5750	5.33	540,000	600	342,000	400										
199	6000	5.80	616,000	770	514,000	630										
207	6250	6.30	682,000	930	612,000	780										
216	6500	6.81	730,000	1110	682,000	980	456,000	660								
224	6750	7.34	776,000	1260	738,000	1170	594,000	910								
232	7000	7.89	820,000	1430	788,000	1370	684,000	1150								
249	7500	9.06	900,000	1780	878,000	1760	818,000	1600	696,000	1320						
265	8000	10.32	980,000	2160	962,000	2160	916,000	2080	848,000	1680	706,000	1520				
282	8500	11.63	1,060,000	2580	1,040,000	2580	1,000,000	2540	954,000	2420	876,000	2180	730,000	1780		
299	9000	13.05	1,140,000	3080	1,120,000	3080	1,090,000	3080	1,040,000	3020	996,000	2820	914,000	2540	770,000	2100
315	9500	14.53	1,220,000	3620	1,200,000	3620	1,160,000	3620	1,130,000	3600	1,090,000	3520	1,040,000	3260	956,000	2940
332	10000	16.2			1,380,000	4240	1,250,000	4540	1,210,000	4240	1,170,000	4200	1,140,000	4060	1,090,000	3800

Double Inlet

No. 24 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
32	1050	0.179	106,000	3.9												
37	1200	0.233	161,000	8.1												
42	1400	0.316	202,000	14												
49	1600	0.412	242,000	20	199,000	17.5										
55	1800	0.520	278,000	29	250,000	29	104,000	18								
60	2000	0.645			292,000	41	256,000	36								
67	2200	0.78			332,000	54	306,000	54	258,000	42						
73	2400	0.93			372,000	70	346,000	70	320,000	64	262,000	52				
79	2600	1.09			406,000	90	384,000	90	366,000	86	336,000	78	270,000	62		
85	2800	1.26					424,000	110	404,000	110	386,000	110	354,000	94	284,000	76
91	3000	1.45					462,000	135	444,000	140	428,000	135	406,000	130	374,000	115
97	3200	1.65					500,000	170	482,000	170	468,000	170	450,000	165	430,000	155
103	3400	1.86							520,000	195	506,000	195	490,000	195	476,000	195
109	3600	2.10							558,000	240	544,000	240	528,000	240	516,000	240
115	3800	2.32									582,000	290	570,000	290	556,000	290
121	4000	2.58									618,000	330	608,000	330	592,000	330
127	4200	2.85											626,000	380	632,000	380
133	4400	3.13											680,000	430	668,000	430
140	4600	3.41													708,000	500
145	4800	3.7													746,000	560

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
91	3000	1.45	310,000	94												
97	3200	1.65	396,000	140												
103	3400	1.86	454,000	185	372,000	145										
109	3600	2.10	500,000	230	452,000	200	338,000	150								
115	3800	2.32	542,000	280	508,000	260	442,000	220								
121	4000	2.58	578,000	330	552,000	320	510,000	280	428,000	230						
127	4200	2.85	620,000	380	596,000	370	564,000	360	516,000	300	414,000	250				
133	4400	3.13	660,000	430	636,000	430	612,000	420	576,000	390	516,000	340				
140	4600	3.41	700,000	500	676,000	500	654,000	490	630,000	470	586,000	430	390,000	280		
145	4800	3.70	734,000	560	712,000	560	692,000	560	672,000	550	640,000	510	520,000	400		
151	5000	4.05	772,000	640	752,000	640	732,000	640	710,000	640	686,000	620	606,000	520	398,000	350
159	5250	4.44			800,000	740	782,000	740	760,000	740	740,000	730	684,000	650	570,000	530
167	5500	4.88			844,000	850	828,000	850	806,000	850	790,000	850	750,000	800	672,000	700
174	5750	5.33			890,000	970	874,000	970	858,000	970	840,000	970	806,000	950	750,000	870
181	6000	5.80							904,000	1090	890,000	1090	854,000	1090	812,000	1030
189	6250	6.30							952,000	1220	938,000	1220	902,000	1220	868,000	1210
197	6500	6.81							1,000,000	1380	982,000	1380	952,000	1380	922,000	1380
204	6750	7.31							1,050,000	1570	1,030,000	1570	1,000,000	1570	972,000	1570
211	7000	7.89									1,080,000	1760	1,050,000	1760	1,020,000	1760
226	7500	9.06											1,140,000	2160	1,120,000	2160
241	8000	10.32													1,210,000	2620
256	8500	11.63													1,310,000	3160
271	9000	13.05													1,400,000	3740

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
167	5500	4.88	598,000	520												
174	5750	5.33	652,000	730	414,000	480										
181	6000	5.80	746,000	930	622,000	760										
189	6250	6.30	824,000	1120	740,000	950										
197	6500	6.81	884,000	1310	826,000	1180	550,000	800								
204	6750	7.31	938,000	1530	892,000	1420	718,000	1100								
211	7000	7.89	992,000	1730	952,000	1650	832,000	1340								
226	7500	9.06	1,090,000	2160	1,060,000	2140	988,000	1930	840,000	1600						
241	8000	10.32	1,180,000	2620	1,160,000	2620	1,110,000	2500	1,030,000	2280	852,000	1830				
256	8500	11.63	1,280,000	3160	1,260,000	3160	1,210,000	3080	1,160,000	2940	1,060,000	2640	882,000	2160		
271	9000	13.05	1,380,000	3740	1,350,000	3740	1,310,000	3740	1,260,000	3640	1,200,000	3420	1,100,000	3060	930,000	2540
287	9500	14.53	1,470,000	4360	1,450,000	4360	1,400,000	4360	1,370,000	4360	1,320,000	4260	1,260,000	3940	1,150,000	3560
302	10000	16.2			1,540,000	5140	1,500,000	5140	1,460,000	5140	1,420,000	5080	1,380,000	4920	1,320,000	4600

Double Inlet

No. 26 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure ⅛" Water .0722 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure ⅞" Water .506 ozs. per sq. inch	H.P.
29	1050	0.179	126,000	4.7												
34	1200	0.233	191,000	9.7												
39	1400	0.316	240,000	16.5												
44	1600	0.412	288,000	24	238,000	21										
50	1800	0.520	332,000	34	298,000	34	185,000	22								
56	2000	0.645			348,000	49	306,000	42								
61	2200	0.78			436,000	64	364,000	64	308,000	52						
67	2400	0.93			484,000	84	412,000	84	380,000	76	312,000	62				
72	2600	1.09					458,000	110	434,000	105	400,000	94	322,000	74		
78	2800	1.26					506,000	130	482,000	130	460,000	130	420,000	110	338,000	90
83	3000	1.45					550,000	165	528,000	165	508,000	165	484,000	150	444,000	135
89	3200	1.65					594,000	200	572,000	200	556,000	200	536,000	195	512,000	185
94	3400	1.86							620,000	240	602,000	240	584,000	240	568,000	230
100	3600	2.10							664,000	280	646,000	280	630,000	280	614,000	280
106	3800	2.32									692,000	340	680,000	340	660,000	340
111	4000	2.58									736,000	390	724,000	390	704,000	390
116	4200	2.85											768,000	450	752,000	450
122	4400	3.13											810,000	520	796,000	520
128	4600	3.41													844,000	590
133	4800	3.7													888,000	670

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
83	3000	1.45	370,000	110												
89	3200	1.65	472,000	170												
94	3400	1.86	540,000	220	412,000	170										
100	3600	2.10	596,000	280	536,000	240	402,000	180								
106	3800	2.32	644,000	330	606,000	310	528,000	260								
111	4000	2.58	688,000	390	658,000	380	606,000	340	510,000	280						
116	4200	2.85	738,000	450	710,000	440	672,000	420	614,000	370	494,000	300				
122	4400	3.13	786,000	520	756,000	520	728,000	500	686,000	460	616,000	410				
128	4600	3.41	832,000	590	806,000	590	778,000	580	750,000	560	698,000	510	466,000	340		
133	4800	3.70	874,000	670	848,000	670	824,000	670	800,000	660	760,000	610	620,000	480		
139	5000	4.05	920,000	760	896,000	760	872,000	760	846,000	760	816,000	730	720,000	620	472,000	410
146	5250	4.44			950,000	890	930,000	890	904,000	890	880,000	860	816,000	770	678,000	630
153	5500	4.88			1,004,000	1010	988,000	1010	960,000	1010	940,000	1010	892,000	950	800,000	830
160	5750	5.33			1,062,000	1150	1,040,000	1150	1,020,000	1150	1,000,000	1150	958,000	1130	892,000	1030
166	6000	5.80							1,080,000	1300	1,060,000	1300	1,020,000	1300	966,000	1220
173	6250	6.30							1,130,000	1460	1,120,000	1460	1,170,000	1460	1,030,000	1440
180	6500	6.81							1,190,000	1660	1,170,000	1660	1,130,000	1660	1,100,000	1640
187	6750	7.34							1,250,000	1870	1,230,000	1870	1,190,000	1870	1,160,000	1870
194	7000	7.89									1,280,000	2100	1,250,000	2100	1,220,000	2100
207	7500	9.06											1,360,000	2560	1,330,000	2560
221	8000	10.32													1,440,000	3120
235	8500	11.63													1,560,000	3720
249	9000	13.05													1,670,000	4440

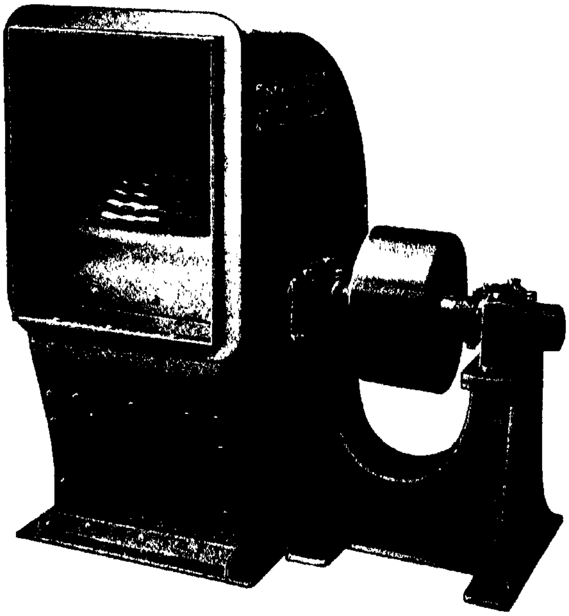
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
153	5500	4.88	601,000	620												
160	5750	5.33	778,000	870	494,000	570										
166	6000	5.80	888,000	1100	740,000	900										
173	6250	6.30	980,000	1320	880,000	1130										
180	6500	6.81	1,050,000	1600	982,000	1410	656,000	950								
187	6750	7.34	1,120,000	1820	1,060,000	1690	856,000	1310								
194	7000	7.89	1,180,000	2060	1,130,000	1970	990,000	1600								
207	7500	9.06	1,300,000	2560	1,260,000	2540	1,180,000	2300	1,000,000	1910						
221	8000	10.32	1,410,000	3120	1,390,000	3120	1,320,000	2900	1,220,000	2700	1,020,000	2180				
235	8500	11.63	1,530,000	3720	1,500,000	3720	1,440,000	3660	1,370,000	3480	1,260,000	3140	1,050,000	2560		
249	9000	13.05	1,640,000	4440	1,610,000	4440	1,570,000	4440	1,500,000	4340	1,430,000	4060	1,310,000	3660	1,110,000	3040
262	9500	14.53	1,750,000	5200	1,730,000	5200	1,670,000	5200	1,620,000	5200	1,570,000	5080	1,490,000	4700	1,370,000	4240
276	10000	16.2			1,840,000	6100	1,790,000	6100	1,750,000	6100	1,690,000	6060	1,640,000	5860	1,570,000	5480

MULTIVANE FANS

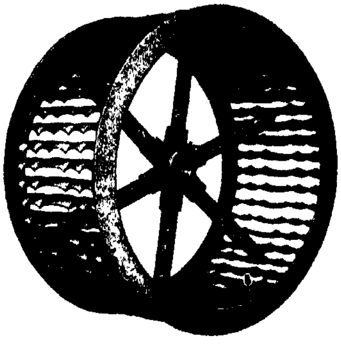
Design 3

Dimensions, Capacities, Horse Powers

Multivane Fan—Design 3



Design No. 3 Multivane Fan



Design No. 3 Multivane Wheel

MULTIVANE FAN—DESIGN 3

SPECIFICATIONS

General. There shall be furnished a No......, design No. 3, Sturtevant Multivane Fan. It shall be made (single or double) .... inlet, (single or double)........ width, (right or left)....... hand,......... discharge and have (full or ⅞) .... housing. The wheel shall be not less than ....." diameter. The outlet shall be ...." by .. ", the diameter of the inlet shall be ....."'. The total height of the fan housing shall be .... ", the width in direction of shaft ......", and the length transverse to shaft .....".

The fan shall have a capacity of .... cubic feet per minute against a resistance of ....." water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately ...... R.P.M., requiring approximately ..... B.H.P.

Housing. The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and roundabout sheet shall be made of No. 11 gauge for fans above 45" high. The smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

Wheel. The blades of the wheel shall be made of refined steel plate and spooned with spherical depressions to efficiently handle the air. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template, as well as the blades themselves, to insure the proper position of each blade in the wheel. For diameters above 46", a third annular ring shall be placed in the center of the wheel, and two hubs used instead of one. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

Bearings. The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbit, containing upwards of 85% tin, bored and scraped to exact size.

Shaft. The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

MULTIVANE FAN—DESIGN 3

EXPLANATION OF SPECIFICATION REQUIREMENTS

Noise. Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

Distribution of Work and Stresses. The spherical depressions grip the air and prevent it from slipping along the blade to the side of the wheel opposite the inlet, thus distributing the work along the entire length of the blade.

The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

Strength and Rigidity. Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bulging or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets.

Additional Strength in Larger Sizes. In sizes No. 10 and above the center annulus carries out to a much greater degree the strengthening feature of tying the blades at the center, thereby doing away with any chance of bowing out. That is, every blade in the wheel is tied down at the center. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

Wearing Qualities. Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

Multivane Fan—Design 3

EXPLANATION OF TABLES

These fans have very large outlets compared to their capacity and consequently they have low outlet velocities. The large outlet when connected to a pipe of the same size produces a chimney effect which converts a large part of the velocity in the casing into useful pressure. These fans should not be used without a pipe upon the outlet because without the pipe the conversion effect is largely lost. Neither should they be used upon a pipe of less area than the outlet of the fan.

Other than the above exception the general explanation of tables at the front of this book applies.

Multivane Fan—Design 3

APPROXIMATE WEIGHTS

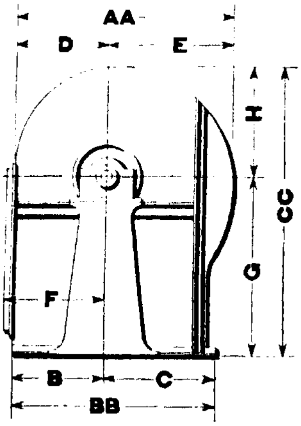
FULL HOUSING

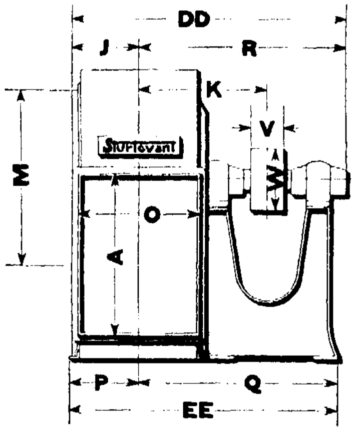
Size	Overhung Wheel	Overhung Pulley
2	225	225
3	320	320
4	470	420
5	640	640
6	840	580
6½	1040	750
7	1240	925
8	1800	1260
9	2440	1750
10	3000	2450
11	3675	3050
12	4350	3700
13	5100	4600
14	6050	5350
15	7350	6650
16	8850	7800
17	10400	9360
⅞ HOUSING ONLY		
18		8950
20		11800
22		15300
24		18650
26		23700

Single Inlet **Single Width**

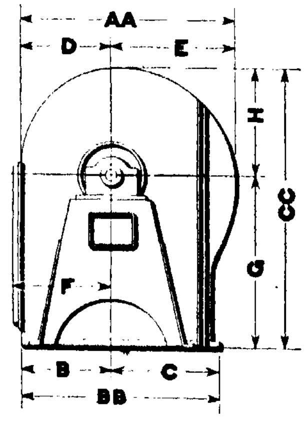
Multivane Fan—Design 3

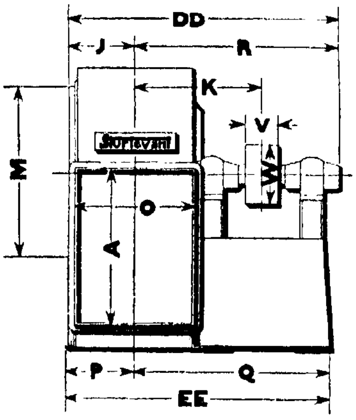
Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Hanger	Anchor Bolts Fan
2	13	7 5/8	9 1/2	7 5/8	10 1/4	8 7/8	15	8 3/4	5 13/16	11 5/8	13 3/4	10 1/8	6 7/8	18 7/8	19 5/8	3 1/2	6	17 7/8	17 1/8	23 3/4	25 9/16	25 1/4	13 1/8	1 1/4	1/2	1/2
3	16 1/8	9 1/2	11 1/2	9 1/2	12 1/4	10 3/4	18 1/2	10 7/8	7 1/8	14 1/16	17 3/8	12 1/2	8 1/16	22 9/16	23 3/8	4	7	22 1/4	21	29 5/8	30 1/2	30 5/8	16 3/8	1 1/4	1/2	1/2
4	19 1/4	11 3/8	13	11 3/8	15 1/4	12 7/8	22	13	8 9/16	15 3/4	20 3/8	14 7/8	9 1/4	25 1/4	26	5	8	26 5/8	24 3/8	35	31 9/16	34 1/2	19 3/4	1 3/8	1/2	1/2
5	22 3/8	13 1/4	15 1/2	13 1/4	17 7/8	14 3/4	25	15 1/4	9 3/4	17 13/16	24	17 1/4	10 13/16	27 7/16	28 1/2	5	10	31 1/8	28 3/4	40 1/4	38 1/4	38 3/8	23	1 1/2	5/8	1/2
6	25 1/2	15 1/8	17 1/2	15 1/8	20 3/8	17 1/8	30	17 3/8	11 5/16	20 7/8	27 3/8	19 5/8	12 1/8	33 5/8	33 7/8	6	12	35 1/2	32 5/8	47 3/8	45 1/16	45 1/4	26 1/4	1 11/16	5/8	5/8
6 1/2	28 5/8	17	19 1/2	17	22 7/8	19	32 3/4	19 1/2	12 3/8	22 5/16	30 3/4	22	13 5/16	35 13/16	35 1/2	6 1/2	13	39 7/8	36 1/2	52 1/4	47 7/8	49 1/8	29 1/2	1 15/16	5/8	5/8
7	31 3/4	18 7/8	21 1/2	18 7/8	25 1/2	20 7/8	35 3/4	21 3/4	14 5/16	24 1/2	34 1/8	21 3/8	14 1/2	39	38 3/4	7 1/2	14	44 3/8	40 3/8	57 1/2	52 13/16	53 1/2	32 3/4	1 15/16	3/4	5/8
8	38 1/8	22 7/8	26 1/4	22 7/8	30 1/2	24 5/8	41 3/4	26	16 7/16	28 7/8	40 7/8	29 1/4	16 7/8	44 3/8	44 1/2	9	16	53 1/8	48 7/8	67 3/4	60 15/16	61 1/4	39 1/8	2 3/16	3/4	3/4
9	44 3/8	26 1/4	30 3/4	26 3/8	35 5/8	28 3/4	48 1/2	30 3/8	18 13/16	32 3/4	47 5/8	31	20 1/4	50 3/4	50 5/8	10 1/2	18	62	57 1/8	78 7/8	69 7/16	71	45 7/8	2 7/16	7/8	3/4
10	50 3/8	30 1/8	31 1/4	30 1/8	40 3/8	32 1/8	55	34 5/8	21 3/16	36 1/8	54 3/8	38 3/4	22 5/8	55 3/4	55 1/2	10 1/2	20	70 3/4	64 3/8	89 5/8	76 11/16	78 1/4	52 1/8	2 11/16	1	7/8
11	56 7/8	33 7/8	38	33 7/8	45 1/4	36 3/8	61 1/4	39	23 9/16	40	61 1/4	43 1/2	25	61 1/2	61 7/8	12	22	79 5/8	71 7/8	100 1/2	84 15/16	86 1/2	58 7/8	2 15/16	1	7/8





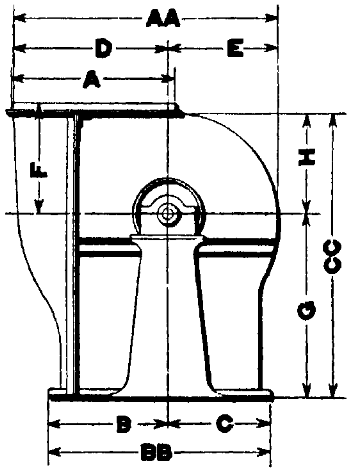
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Hanger	Anchor Bolts Fan
12	63 1/8	37 5/8	42 1/2	37 5/8	50 1/4	40 1/8	64 1/4	43 1/4	26	40 3/4	68	48 1/4	28 1/8	59	60	12	24	88 3/8	80 1/8	108	86	87 3/8	65 1/2	3 7/16	1	7/8
13	69 3/8	41 1/4	46 1/4	41 3/4	55 7/8	43 5/8	71	47 3/8	28 1/8	44 7/8	74 1/4	53	30 3/4	65 1/8	67 1/2	13 1/2	28	97 1/4	87 5/8	118 3/8	95 1/2	96 1/8	72	3 15/16	1	7/8
14	75 3/8	45 1/8	50 1/8	45 1/8	60 7/8	47 3/8	77 1/4	51 7/8	31 1/4	48 1/4	81 1/4	57 1/4	33 5/8	70 1/4	72 1/2	13 1/2	32	106	95 1/4	129 1/8	103 1/4	103 7/8	78 1/2	4 1/2	1	7/8
15	82	48 7/8	53 7/8	48 7/8	66	52 3/4	83 1/4	56 1/4	33 3/8	51	88 1/4	62 5/8	36	73 3/4	75 7/8	14 1/2	36	111 7/8	102 1/4	139 1/4	109 1/2	109 5/8	85 1/8	4 1/2	1	7/8
16	88 1/2	52 3/8	58 3/8	52 3/8	71	56 1/4	89 3/4	60 1/2	36	55	95	67 3/4	39 1/4	79 5/8	81 7/8	14 1/2	42	123 5/8	111 1/4	150 1/4	117 7/8	119	91 5/8	5	1 1/4	7/8
17	94 1/2	56 3/4	62 3/4	56 3/4	76 1/2	59 7/8	96	64 7/8	38 3/8	57 3/8	101 3/4	72 1/8	41 3/4	82	84 1/4	14 1/2	48	132 1/2	118 3/4	160 7/8	122 5/8	123 3/4	98 1/4	5	1 1/4	1

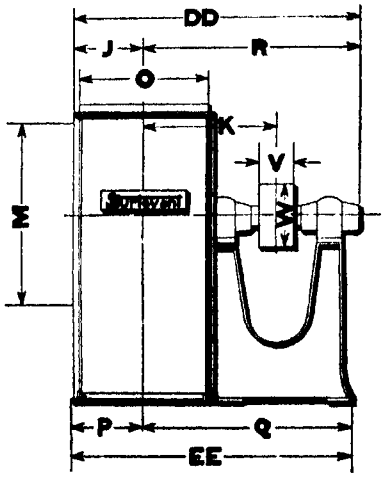
Single Inlet

Multivane Fan—Design 3

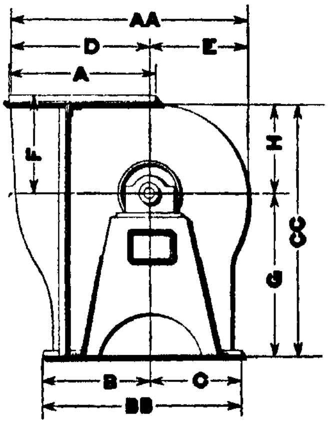
Single Width

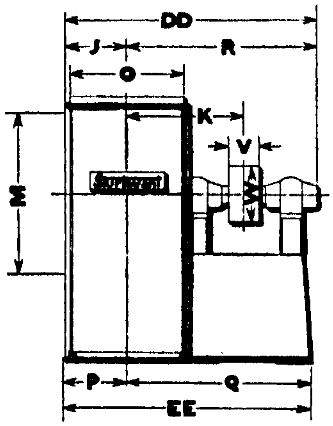
Full Housing **Up Blast Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
2	13	10½	8½	12⅜	8¾	8⅞	15	7⅝	5 11/16	11⅜	13¾	10⅛	6⅜	18⅞	19⅝	3½	6	21⅛	21	22⅝	25 5/16	25¼	13⅛	1¼	½	½
3	16⅛	13	10½	15⅜	10⅞	10¾	18½	9½	7⅛	14 1/16	17⅛	12½	8 1/16	22 3/16	23⅜	4	7	26¼	23½	28	30½	30¼	16⅛	1¼	½	½
4	19¾	15	12	18½	13	12⅞	22	11⅜	8 9/16	15⅛	20⅝	14⅞	9¼	25¼	26	5	8	31½	27	33⅜	34 9/16	34½	19½	1⅜	½	½
5	22⅝	17⅜	14	21½	15¼	14¾	25	13¼	9¾	17 11/16	24	17¼	10 13/16	27 7/16	28½	5	10	36¾	31⅜	38¼	38¼	38¼	23	1⅜	⅝	½
6	25¼	20	15½	24⅝	17⅜	17⅛	30	15⅜	11 3/16	20⅞	27⅝	19⅜	12⅛	33⅜	33⅞	6	12	42	35¼	45⅜	45 1/16	45½	26¼	1 7/16	⅝	⅝
6½	28⅜	22¼	17	27¾	19½	19	32¾	17	12⅜	22 1/16	30¾	22	13 5/16	35 15/16	35½	6½	13	47¼	39¼	49¾	47⅞	49¼	29⅜	1 11/16	⅝	⅝
7	31¾	24½	18½	30¾	21¾	20⅞	35¾	18⅞	14 1/16	24¼	34⅛	24⅝	14½	39	38¾	7½	14	52½	43	54⅝	52 13/16	53½	32¾	1 15/16	⅝	⅝
8	38⅛	29	21½	36⅞	26	24⅝	41¾	22⅝	16 7/16	28⅞	40⅞	29¼	16⅞	44⅜	44½	9	16	62⅞	50½	64⅜	60 15/16	61¼	39⅜	2 3/16	¾	⅝
9	44⅜	34½	25½	43	30⅜	28⅜	48½	26⅜	18 13/16	32¾	47⅜	34	20¼	50¾	50⅝	10½	18	73⅜	60	74⅞	69 7/16	71	45¼	2 7/16	⅞	¾
10	50⅝	39	28½	49⅜	34⅜	32⅛	55	30⅛	21 3/16	36⅛	54⅜	38¼	22⅝	55⅝	55½	10½	20	83¾	67½	85⅛	76 11/16	78¼	52⅜	2 11/16	1	¾
11	56⅞	43½	31¼	55¼	39	36⅜	61½	33⅞	23 9/16	40	61¼	43¼	25	61½	61⅜	12	22	94¼	75	95⅜	84 15/16	86½	58⅝	2 15/16	1	⅞





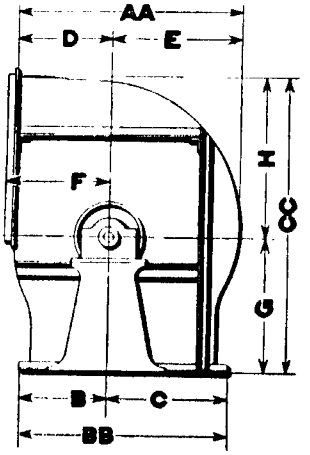
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
12	63⅛	49	36	61⅜	43¼	40⅛	54¼	37⅝	26	40⅜	68	48¼	28⅞	59	60	12	24	104⅝	85	91⅞	86	87⅞	65½	3 7/16	1	⅞
13	69⅜	53½	39½	67½	47⅝	43⅞	59½	41⅜	28⅜	44¾	74¾	53	30¾	65⅜	67⅛	13½	28	115⅛	93	100⅞	95½	96⅛	72	3 15/16	1	⅞
14	75⅝	58	50⅛	73⅝	51⅞	47¾	64¼	45⅛	31¼	48⅛	81½	57¾	33⅜	70¼	72½	13½	32	125½	108⅛	109⅜	103¾	103⅝	78½	4½	1	⅞
15	82	62	53⅞	79¾	56¼	52¾	70	48⅞	33⅝	51	88¼	62⅝	36	73⅝	75⅞	14½	36	136	115⅞	118⅞	109½	109⅝	85⅛	4½	1	⅞
16	88¼	67	58⅝	85⅞	60½	56⅛	75½	52⅜	36	55	95	67⅞	39⅜	79⅝	81⅞	14½	42	146⅜	125⅝	127⅞	117⅞	119	91⅜	5	1¼	⅞
17	94¼	71	62¾	92	64⅞	59⅞	80¼	56⅞	38⅜	57⅝	101⅜	72¼	41¾	82	84¼	14½	48	156⅞	133⅜	136⅛	122⅝	123¾	98¼	5	1¼	1

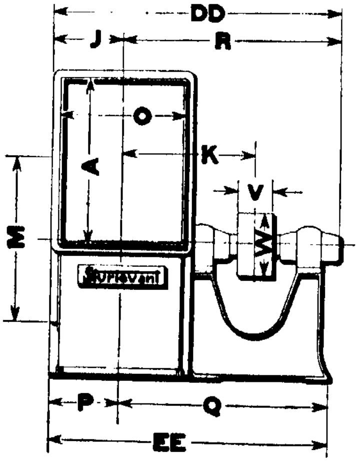
Single Inlet

Multivane Fan—Design 3

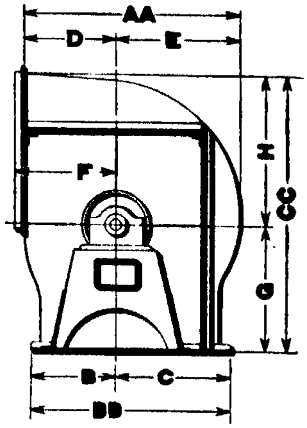
Single Width

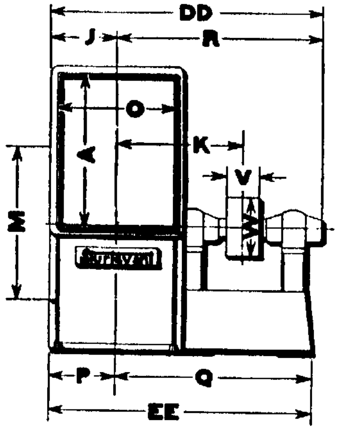
Full Housing **Top Horizontal Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
2	13	7	9½	7⅜	10¼	8⅞	11	12⅞	5 13/16	11⅝	13¾	10⅛	6⅜	18⅞	19⅝	3½	6	17⅞	16½	23⅜	25 9/16	25¼	13⅛	1¼	½	½
3	16⅛	8¾	11½	9½	12¾	10⅞	14	15⅜	7⅛	14 1/16	17⅛	12½	8 1/16	22 9/16	23⅝	4	7	22¼	20¼	29⅝	30½	30⅝	16⅜	1¼	½	½
4	19¼	10	13	11⅜	15¼	12⅞	16½	18½	8 9/16	15¾	20⅜	14⅞	9¼	25¼	26	5	8	26⅝	23	35	34 9/16	34½	19¾	1⅜	½	½
5	22⅞	11¾	15½	13¼	17⅞	14⅞	18½	21½	9¾	17 13/16	24	17¼	10 13/16	27 7/16	28½	5	10	31⅛	27¼	40	38¼	38⅜	23	1½	½	½
6	25½	13	17½	15⅛	20⅞	17⅛	20¾	24⅜	11 3/16	20⅞	27⅜	19⅝	12⅛	33⅜	33⅞	6	12	35½	30½	45⅞	45 1/16	45¾	26¼	1 11/16	⅝	⅝
6½	28⅝	14⅛	19½	17	22⅞	19	23¼	27¾	12⅜	22 1/16	30¾	22	13 5/16	35 13/16	35½	6½	13	39⅞	34¾	51¼	47⅞	49⅛	29½	1 15/16	⅝	⅝
7	31¾	15½	21½	18⅞	25½	20⅞	25½	30⅜	14 3/16	24¼	34⅛	24⅜	14⅝	39	38¾	7½	14	41⅜	37	56¼	52 13/16	53½	32¾	1 15/16	⅝	⅝
8	38⅛	18½	26¼	22⅜	30½	24⅝	30¾	36⅞	16 7/16	28⅞	40⅞	29¼	16⅞	44⅜	44½	9	16	53⅛	44¾	67⅝	60 13/16	61¼	39⅜	2 3/16	¾	¾
9	44⅜	22½	30¾	26⅜	35⅝	28⅜	35½	43	18 13/16	32¼	47⅜	34	20¼	50¾	50⅝	10½	18	62	53¼	78½	69 7/16	71	45⅞	2 7/16	⅞	¾
10	50⅝	25½	34¼	30⅛	40⅝	32⅛	40¾	49⅛	21 3/16	36⅛	54⅜	38¾	22⅝	55⅜	55½	10½	20	70¾	59¾	89⅞	76 11/16	78¼	52⅜	2 11/16	1	⅞
11	56⅞	28⅛	38	33⅞	45⅜	36⅜	45⅛	55¼	23 9/16	40	61⅛	43¼	25	61⅛	61⅞	12	22	79⅜	66⅛	100¾	84 13/16	86½	58⅞	2 15/16	1	⅞





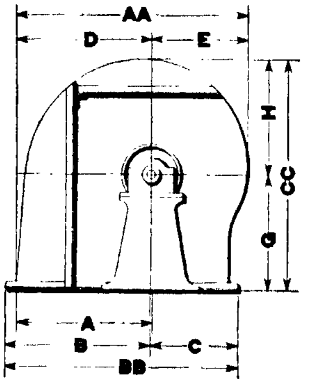
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
12	63⅜	32½	42½	37⅜	50¾	40⅛	46¾	61⅝	26	40¾	68	48¼	28⅝	59	60	12	24	88⅜	75	108⅛	86	87⅜	65½	3 7/16	1	⅞
13	69¼	35½	46¼	41⅜	55⅞	43⅞	51¼	67½	28⅜	44¼	74⅜	53	30¾	65⅜	67⅛	13½	28	97¼	81¾	118¾	95½	96⅛	72	3 11/16	1	⅞
14	75⅛	50⅛	50⅛	45⅛	60⅞	47⅛	55¾	73⅝	31¼	48¼	81½	57¾	33⅜	70¼	72½	13½	32	106	100¼	129¾	103¾	103⅞	78½	4½	1	⅞
15	82	53⅞	53⅞	48⅞	66	52⅛	60¾	79⅜	33⅝	51	88¼	62⅞	36	73⅝	75⅞	14½	36	111⅞	107¾	140	109½	109⅝	85⅛	4½	1	⅞
16	88¼	58⅜	58⅜	52⅛	71	56⅛	64¾	85⅝	36	55	95	67⅜	39⅞	79⅜	81⅞	14½	42	123⅝	117¼	150⅝	117⅞	119	91⅝	5	1¼	⅞
17	94⅛	62⅜	62⅜	56⅜	76⅛	59⅞	69⅛	92	38⅜	57⅜	101½	72⅛	41¾	82	81¼	14½	48	132⅛	124¾	161¼	122⅝	123¾	98¼	5	1¼	1

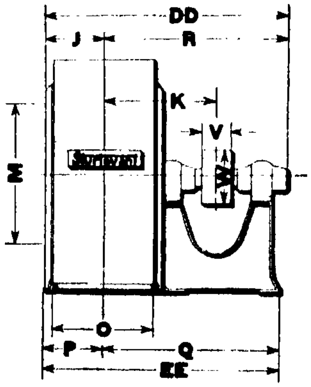
Single Inlet

Multivane Fan—Design 3

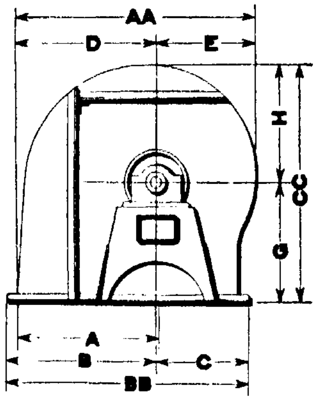
Single Width

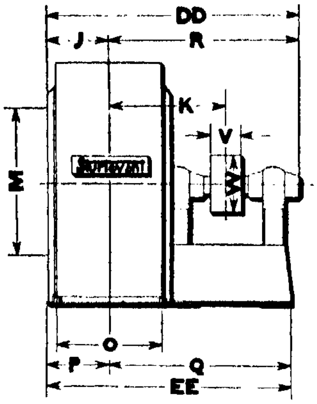
Full Housing **Down Blast Discharge** **Overhung Wheel**





Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Hanger	Fan
2	12½	14	8½	12½	8¼	11	10¼	5 13/16	11⅝	13¾	9½	6⅞	18⅞	19⅝	3½	6	21¼	22½	21¼	25 9/16	25¼	13⅛	1¼	½	½
3	15⅝	17⅛	10½	15½	10⅞	14	12¾	7⅛	14 1/16	17⅛	11⅞	8 1/16	22 9/16	23⅜	4	7	26⅝	28	26¾	30½	30⅜	16⅞	1¼	½	½
4	18¾	20⅝	12	18⅝	13	16½	15¼	8 9/16	15¾	20⅝	14¼	9¼	25¼	26	5	8	31⅝	32⅜	31¾	34 9/16	34½	19¾	1⅜	½	½
5	21⅞	24¼	14	21¾	15¼	18½	17⅞	9¾	17 13/16	24	16⅝	10 13/16	27 7/16	28½	5	10	37	38¼	36⅞	38½	38⅞	23	1½	½	½
6	25	27⅜	15½	21⅞	17⅜	20¾	20⅞	11 3/16	20⅞	27⅜	19	12⅛	33⅝	33⅞	6	12	42¼	42⅞	41⅛	45 1/16	45¾	26¼	1 11/16	⅝	⅝
6½	28⅛	30⅝	17	28⅛	19½	23½	22⅞	12⅜	22 1/16	30¾	21⅜	13 5/16	35 13/16	35½	6½	13	47⅝	47⅜	46⅞	47⅛	49⅛	29½	1 15/16	⅝	⅝
7	31¼	33⅝	18½	31⅛	21¾	25½	25½	14 1/16	24¼	34⅛	23¾	14½	39	38¾	7½	14	52⅞	52⅛	51	52 13/16	53½	32¾	1 15/16	⅝	⅝
8	37½	39⅞	21½	37⅜	26	30¾	30½	16 7/16	28⅞	40⅞	28½	16⅞	44⅝	44½	9	16	63⅜	61⅞	61¼	60 13/16	61¼	39⅜	2 3/16	¾	¾
9	43¾	47	25½	43½	30⅜	35½	35⅝	18 11/16	32¾	47⅝	33¼	20¼	50¾	50⅝	10½	18	73⅞	72½	71⅛	69 7/16	71	45⅞	2 7/16	⅞	¾
10	50	53¼	28½	49¾	34⅜	40¼	40⅝	21 3/16	36⅛	54⅜	38	22⅜	55⅝	55½	10½	20	84⅜	81¾	81⅛	76 11/16	78½	52¼	2 11/16	1	⅞
11	56¼	59¾	31½	55⅞	39	45½	45¾	23 9/16	40	61⅛	42¾	25	61½	61⅞	12	22	94⅞	90⅞	91⅛	84 13/16	86¼	58⅞	2 15/16	1	⅞



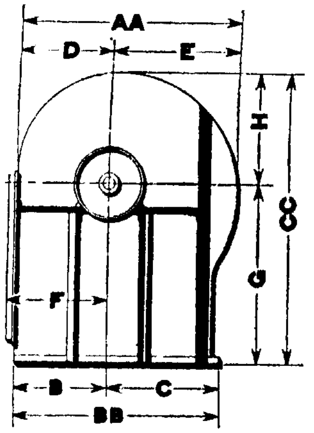


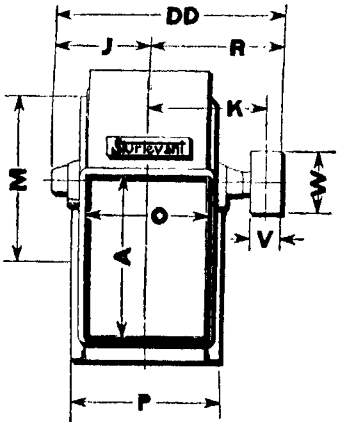
Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Hanger	Fan
12	62½	65⅞	36	61⅛	43¼	41	50¾	26	40⅜	68	47½	28¾	59	60	12	24	104⅜	101⅞	91¾	86	87⅞	65½	3 7/16	1	⅞
13	68¾	72	39½	67½	47⅜	45	55⅞	28⅞	44¾	74¾	52¼	30¾	65⅛	67⅛	13½	28	115⅛	111½	100⅞	95½	96⅛	72	3 15/16	1	⅞
14	75	78⅝	50⅛	73⅝	51⅞	49	60⅞	31¾	48⅛	81½	57	33⅝	70¼	72½	13½	32	125½	128¾	109⅞	103¾	103⅞	78½	4½	1	⅞
15	81¼	84¾	53⅞	79¼	56¼	53	66	33⅝	51	88¼	61¾	36	73⅝	75⅞	11¼	36	136	138⅝	119	109½	109⅝	85⅛	4½	1	⅞
16	87½	91⅞	58⅝	85⅞	60½	57	71	36	55	95	66½	39⅜	79⅝	81⅞	11½	42	116⅜	150½	128	117⅞	119	91⅝	5	1¼	⅞
17	93¾	98	62⅜	92	64⅞	61	76⅛	38⅛	57⅞	101¼	71¼	41¾	82	84¼	14½	48	156⅞	160⅜	137⅛	122⅝	123¾	98¼	5	1¼	1

Single Inlet **Single Width**

Multivane Fan—Design 3

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	7⅝	9½	7⅝	10¼	8⅞	14¾	8⅞	11	11⅛	13¼	10⅛	12¾	13	3½	6	17⅞	17⅛	23½	24	13⅛	1¼	½
3	16⅛	9½	11½	9½	12¾	10¼	17⅞	10⅞	12⅜	12⅝	17⅛	12½	16⅛	14¾	4	7	22¼	21	28¾	26⅞	16⅝	1¼	½
4	19¼	11⅜	13	11⅜	15¼	12⅞	21	13	13¾	14½	20⅝	14⅞	18½	17⅛	5	8	26⅝	21⅞	34	30⅞	19¾	1⅜	½
5	22⅝	13¼	15½	13¼	17⅞	14¾	21⅝	15¼	15½	16¼	21	17¼	21⅞	18⅞	5	10	31⅛	28¾	39⅜	34⅞	23	1½	½
6	25½	15⅛	17½	15⅛	20⅜	17⅛	27¼	17⅜	17⅛	18¼	27⅜	19⅝	24¼	21½	6	12	35½	32⅝	44⅝	38⅝	26¼	1 11/16	⅝
6½	28⅝	17	19½	17	22⅞	19	30⅝	19½	19¼	20⅛	30¾	22	26⅝	23⅞	6½	13	39⅞	36½	49⅞	42⅝	29½	1 15/16	⅝
7	31¾	18⅞	21½	18⅞	25½	20⅞	33½	21¾	20½	21¾	34⅛	24⅞	29	25½	7½	14	44⅞	40⅜	55¼	46	32¼	1 15/16	⅝
8	38⅛	22⅝	26¼	22⅝	30½	24⅝	39¾	26	23¾	25½	40⅞	29¼	33¾	30	9	16	53⅛	48⅞	65¼	53¾	39⅜	2 3/16	¾
9	44⅜	26⅝	30¼	26⅞	35⅜	28⅞	46	30⅜	26⅞	28⅞	47⅝	34	40½	34⅛	10½	18	62	57⅛	76⅝	61	45⅞	2 7/16	¾
10	50⅝	30⅛	34¼	30⅛	40⅝	32⅛	52¼	34⅜	30⅛	32	54⅜	38¾	45¼	37¼	10½	20	70¼	64⅜	86⅞	67⅞	52⅜	2 11/16	⅞
11	56⅞	33⅞	38	33⅞	45¾	36⅞	58½	39	33⅞	35⅜	61¼	43½	50	41⅞	12	22	79⅝	71⅞	97½	71¾	58⅞	2 15/16	⅞
12	63⅛	37⅝	42½	37⅝	50¼	40⅛	64¼	43¼	37	39	68	48¼	56¾	45	12	24	88⅜	80⅛	108	82	65½	3 7/16	⅞
13	69⅜	41⅝	46¼	41⅝	55⅞	43⅞	71	47⅝	41½	43⅜	74¼	53	61½	50⅛	13½	28	97¼	87⅝	118⅝	91⅝	72	3 15/16	⅞
14	75⅝	45⅛	50⅛	45⅛	60⅞	47⅜	77¼	51⅞	45⅛	46¾	81½	57¾	67¼	53½	13½	32	106	95¼	129⅛	98⅞	78½	4½	⅞
15	82	48⅞	53⅞	48⅞	66	52⅞	83½	56¼	47½	49⅝	88¼	62⅜	72	56⅞	14½	36	114⅞	102¾	139¾	104⅜	85⅛	4½	⅞
16	88¼	52⅝	58⅜	52⅝	71	56⅝	89¼	60½	51⅜	53½	95	67⅜	78⅝	60¾	14½	42	123⅝	111¼	150¼	112⅛	91⅝	5	⅞
17	94½	56⅜	62⅛	56⅜	76⅛	59⅞	96	64⅞	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	132½	118¾	160⅞	116⅞	98¼	5	1

Single Inlet

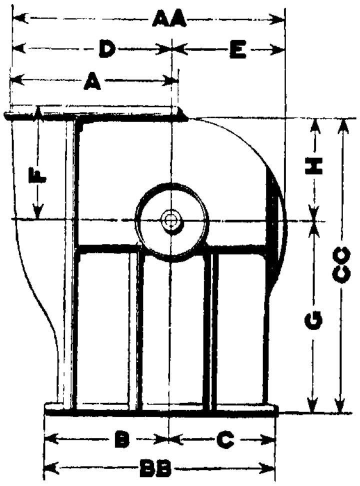
Multivane Fan—Design 3

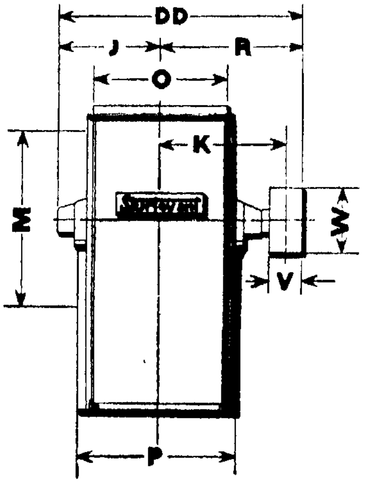
Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



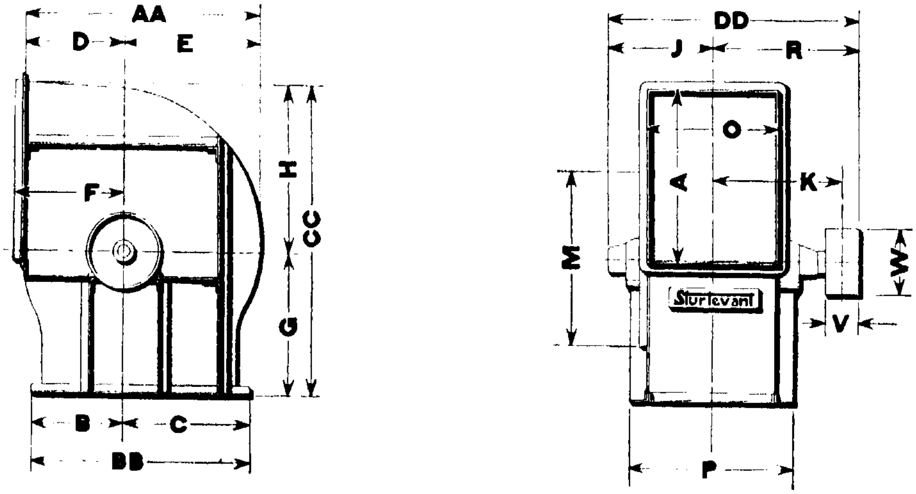


Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	10½	8½	12⅜	8¾	8⅞	12¼	7⅝	11	11⅛	13¾	10⅛	12¾	13	3½	6	21⅛	19	19⅞	24	13⅛	1¼	½
3	16⅝	13	10½	15⅛	10⅞	10¼	14⅞	9½	12⅛	12⅝	17⅛	12½	16¼	14¾	4	7	26¼	23½	21⅜	26⅞	16⅜	1¼	½
4	19¼	15	12	18⅛	13	12⅞	17½	11⅜	13¾	14½	20⅝	14⅞	18½	17⅛	5	8	31½	27	28⅞	30⅞	19¾	1⅜	½
5	22⅜	17¾	14	21½	15¼	11¾	20⅛	13¼	15½	16¼	24	17¼	21⅛	18⅞	5	10	36¾	31¾	33⅜	31⅝	23	1½	½
6	25½	20	15½	21⅜	17⅜	17⅛	22¾	15⅛	17⅛	18¼	27⅜	19⅝	24¼	21½	6	12	42	35½	37⅞	38⅝	26¼	1$\frac{11}{16}$	⅝
6½	28⅝	22¼	17	27¾	19½	19	25⅞	17	19¾	20⅛	30¾	22	26⅝	23⅞	6½	13	47¼	39¼	42⅞	42⅝	29½	1$\frac{13}{16}$	⅝
7	31¾	21½	18½	30¾	21¼	20⅞	28	18⅞	20½	21¾	34⅛	24⅜	29	25½	7½	14	52½	43	46⅞	46	32¾	1$\frac{15}{16}$	⅝
8	38⅛	29	21½	36⅞	26	24⅝	33¼	22⅝	23¾	25½	40⅞	29¼	33¾	30	9	16	62⅞	50½	55⅞	53¾	39⅜	2$\frac{3}{16}$	¾
9	41⅜	31½	25½	43	30⅜	28⅜	38½	26⅝	26⅞	28⅞	47⅝	34	40½	34⅛	10½	18	73⅜	60	61⅞	61	45⅞	2$\frac{7}{16}$	¾
10	50⅝	39	28½	49⅛	34⅜	32⅛	43¾	30⅛	30⅛	32	54⅜	38¾	45¼	37¼	10½	20	83¾	67½	73⅞	67⅜	52⅞	2$\frac{11}{16}$	⅞
11	56⅞	43½	31½	55¼	39	36⅞	49	33⅞	33⅜	35⅝	61¼	43½	50	41⅞	12	22	94¼	75	82⅞	74¾	58⅞	2$\frac{15}{16}$	⅞
12	63⅛	49	36	61⅛	43¼	40⅛	54¼	37⅝	37	39	68	48¼	56¾	45	12	24	104⅝	85	91⅞	82	65½	3$\frac{7}{16}$	⅞
13	69⅜	53½	39½	67½	47⅜	43⅞	59½	41⅞	41½	43¾	71¾	53	61½	50⅛	13½	28	115⅛	93	100⅞	91⅝	72	3$\frac{15}{16}$	⅞
14	75⅝	58	50⅛	73⅝	51⅞	47⅝	61¾	45⅛	45⅛	46¾	81½	57¾	67¼	53½	13½	32	125½	108⅛	109⅞	98⅝	78½	4½	⅞
15	82	62	53⅞	79¾	56¼	52⅜	70	48⅞	47½	49⅝	88¼	62⅝	72	56⅞	14½	36	136	115⅞	118⅞	104⅜	85⅛	4½	⅞
16	88½	67	58⅜	85⅞	60½	56⅛	75¼	52⅝	51⅝	53½	95	67⅜	78¾	60¾	14½	42	146⅜	125⅜	127⅞	112⅛	91⅜	5	⅞
17	94½	71	62⅜	92	64⅞	59⅞	80½	56⅞	53⅞	55⅞	101¾	72⅛	83½	63⅛	14½	48	156⅞	133⅜	136⅞	116⅞	98½	5	1

Single Inlet **Single Width**

Multivane Fan—Design 3

Full Housing **Top Horizontal Discharge** **Overhung Pulley**



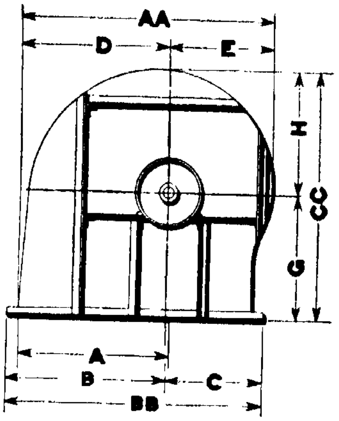
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	5½	8	7⅝	10¼	8¼	10¼	12⅞	11	11⅛	13¾	10⅛	6⅞	12⅞	3½	6	17⅞	13½	23⅛	23⅞	13⅛	1¼	½
3	16⅛	6¾	9½	9½	12¾	10¼	13	15⅜	12⅛	12 9/16	17⅛	12½	16⅜	14 9/16	4	7	22¼	16¼	28⅜	26 11/16	16⅛	1¼	½
4	19¼	8	11	11⅜	15¼	12⅞	15¼	18½	13¾	14½	20⅝	14⅞	18½	17	5	8	26⅝	19	33¾	30¾	19¼	1⅜	½
5	22⅞	9¼	13	13¼	17⅞	14¾	17½	21½	15½	16 3/16	24	17¼	21⅞	18 11/16	5	10	31⅛	22¼	39	34 3/16	23	1½	½
6	25½	10½	15	15⅛	20⅜	17⅛	19¾	24⅝	17⅛	18¼	27⅜	19⅝	24¼	21¼	6	12	35½	25½	44⅜	38⅛	26¼	1 11/16	⅝
6½	28⅞	11¾	17	17	22⅞	19	22	27¼	19¼	20 1/16	30¾	22	26⅝	23 5/16	6½	13	39⅞	28¾	49¼	42 9/16	29½	1 13/16	⅝
7	31¾	13	19	18⅞	25¼	20⅞	24¼	30¾	20½	21¾	34⅛	24⅜	29	25½	7½	14	41⅛	32	55	46	32¾	1 15/16	⅝
8	38⅛	18½	26¼	22⅝	30½	24⅝	28¾	36⅞	23¾	25½	40⅞	29¼	33¾	30	9	16	53⅛	44¾	65⅝	53¼	39⅜	2 3/16	¾
9	44⅜	22½	30¾	26⅝	35⅜	28⅜	33¼	43	26⅞	28⅞	47⅝	34	40½	34⅛	10½	18	62	53¼	76¼	61	45⅞	2 7/16	¾
10	50⅜	25½	34¼	30⅜	40⅜	32⅛	37¼	49⅝	30⅛	32	54⅜	38¾	45¼	37¼	10½	20	70¾	59¾	86⅞	67⅜	52⅛	2 11/16	⅞
11	56⅞	28½	38	33⅞	45¾	36⅜	42¼	55¼	33⅜	35⅜	61¼	43½	50	41⅜	12	22	79⅝	66½	92½	74¼	58⅞	2 15/16	⅞
12	63⅛	32½	42½	37⅜	50¾	40⅛	46¾	61⅜	37	39	68	48¼	56¼	45	12	24	88⅛	75	108⅛	82	65½	3 7/16	⅞
13	69⅞	35½	46¼	41⅜	55⅞	43⅞	51¼	67½	41½	43⅜	74¼	53	61½	50⅛	13½	28	97¼	81¾	118¼	91⅝	72	3 15/16	⅞
14	75⅝	50⅛	50⅛	45⅛	60⅞	47⅜	55¾	73⅝	45⅛	46¾	81½	57¾	67¼	53½	13½	32	106	100¼	129⅜	98⅝	78½	4½	⅞
15	82	53⅞	53⅞	48⅞	66	52⅜	60¼	79¾	47½	49⅝	88¼	62⅝	72	56⅞	14½	36	114⅞	107¾	140	104⅜	85⅛	4½	⅞
16	88¼	58⅝	58⅝	52⅝	71	56⅛	64¾	85⅞	51⅛	53½	95	67⅜	78¾	60¾	14½	42	123⅝	117¼	150⅝	112⅛	91⅜	5	⅞
17	94⅛	62⅜	62⅜	56¼	76¼	59⅞	69¼	92	53¼	55⅞	101¼	72⅛	83½	63⅛	14½	48	132½	124¾	161¼	116⅞	98¼	5	⅞

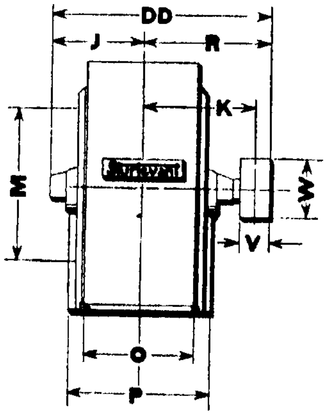
Single Inlet

Multivane Fan—Design 3

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





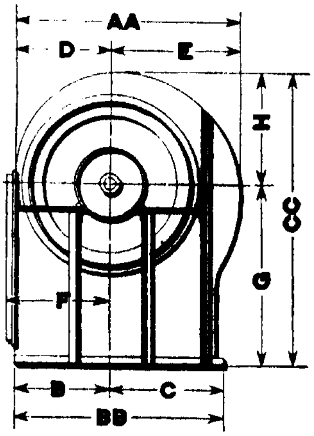
Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	12½	13⅜	8¼	12¼	8¼	9	10¼	11	11⅛	13¼	9½	12¼	13	3½	6	21⅛	22⅝	19¼	24	13⅛	1¼	½
3	15⅝	17⅜	10½	15⅜	10⅞	11	12¾	12⅛	12⅝	17⅛	11⅞	16⅛	14¾	4	7	26¼	27⅞	23¾	26⅞	16⅜	1¼	½
4	18¾	20½	12	18½	13	13	15¼	13¾	14½	20⅝	14¼	18½	17⅛	5	8	31½	32½	28¼	30⅞	19¾	1⅜	½
5	21⅞	24	14	21½	15¼	15	17⅞	15½	16¾	24	16⅝	21⅞	18⅞	5	10	36¾	38	32⅞	34⅜	23	1½	½
6	25	27⅛	15½	24⅜	17⅜	17	20⅜	17⅛	18¼	27⅛	19	24¼	21½	6	12	42	42⅝	37⅜	38⅝	26¼	1$\frac{11}{16}$	⅝
6½	28⅛	30¼	17	27¼	19½	19	22⅞	19¼	20⅛	30¾	21⅞	26⅝	23⅜	6½	13	47¼	47¼	41⅞	42⅜	29½	1$\frac{13}{16}$	⅝
7	31¼	33¼	18½	30¼	21¾	21	25½	20½	21¾	34⅛	23¾	29	25½	7½	14	52½	51¾	46½	46	32¾	1$\frac{15}{16}$	⅝
8	37½	39⅜	21½	36⅞	26	25	30½	23¾	25½	40⅞	28½	33¾	30	9	16	62⅞	60⅞	55½	53¾	39⅜	2$\frac{3}{16}$	¾
9	43¼	46½	25½	43	30⅛	29	35⅝	26⅞	28⅞	47⅜	33¼	40½	34⅛	10½	18	73⅜	72	64⅝	61	45⅞	2$\frac{7}{16}$	¾
10	50	52⅝	28½	49⅛	34⅝	33	40⅜	30⅛	32	54⅜	38	45¼	37¼	10½	20	83⅞	81⅛	73⅝	67⅞	52⅞	2$\frac{11}{16}$	⅞
11	56¼	58¼	31½	55¼	39	37	45¾	33⅝	35⅝	61¼	42¾	50	41⅜	12	22	94¼	90¼	82¾	74¾	58⅞	2$\frac{15}{16}$	⅞
12	62½	65⅞	36	61⅜	43¼	41	50¾	37	39	68	47½	56¾	45	12	24	104⅝	101⅞	91¾	82	65½	3$\frac{7}{16}$	⅞
13	68¾	72	39½	67½	47⅞	45	55⅞	41½	43⅞	74¾	52¼	61½	50⅛	13½	28	115⅛	111½	100⅞	91⅞	72	3$\frac{15}{16}$	⅞
14	75	78⅞	50⅛	73⅜	51⅞	49	60⅞	45⅛	46¾	81½	57	67¼	53½	13½	32	125½	128¾	109⅞	98⅝	78½	4½	⅞
15	81¼	84¼	53⅞	79¾	56¼	53	66	47½	49⅝	88¼	61¾	72	56⅞	14½	36	136	138⅝	119	104⅜	85¼	4½	⅞
16	87½	91⅞	58⅞	85⅝	60½	57	71	51⅜	53½	95	66½	78¾	60¾	14½	42	146⅝	150⅜	128	112⅛	91⅞	5	⅞
17	93¾	98	62⅜	92	64⅞	61	76⅛	53¼	55⅞	101¾	71¼	83½	63⅛	14½	48	156⅞	160⅞	137⅛	116⅞	98¼	5	1

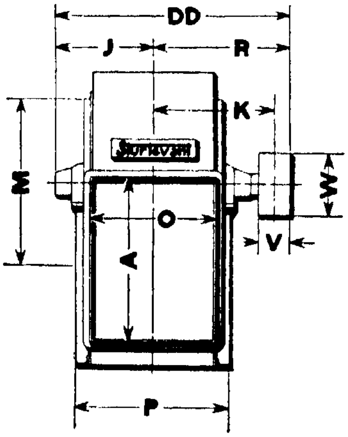
Double Inlet

Multivane Fan—Design 3

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



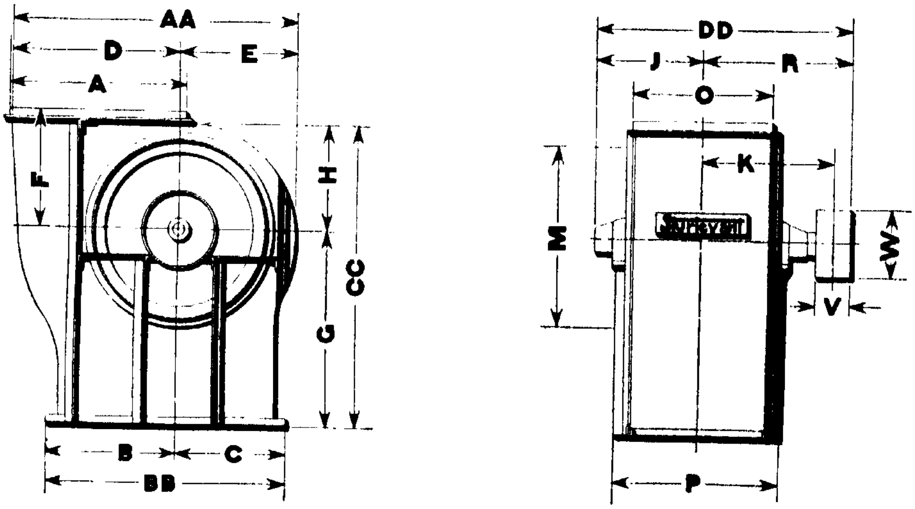


Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	7⅝	9½	7⅝	10¼	8⅞	11¼	8¾	11	11⅛	13¾	10⅛	12¾	13	3½	6	17⅞	17⅛	23½	21	13⅛	1¼	½
3	16⅛	9½	11½	9½	12¾	10¾	17⅞	10⅞	12⅛	12⅝	17⅛	12½	16⅛	11¾	4	7	22¼	21	28¾	26⅞	16⅜	1¼	½
4	19¼	11⅜	13	11⅜	15¼	12⅞	21	13	13¾	11½	20⅜	14⅞	18½	17⅛	5	8	26⅝	24⅞	34	30⅞	19¾	1⅜	½
5	22⅜	13¼	15⅛	13¼	17⅞	14¾	21⅛	15¼	15½	16¼	24	17¼	21⅞	18⅞	5	10	31⅛	28¾	39⅜	34⅞	23	1½	½
6	25½	15⅛	17½	15⅛	20⅝	17⅛	27¼	17⅞	17⅛	18¼	27⅜	19⅝	21¼	21½	6	12	35½	32⅝	41⅝	38⅝	26¼	1 11/16	⅝
6½	28⅜	17	19½	17	22⅞	19	30⅜	19½	19¼	20⅛	30⅜	22	26⅝	23⅜	6½	13	39⅞	36½	49⅞	42⅜	29½	1 15/16	⅝
7	31¾	18⅞	21½	18⅞	25½	20⅛	33½	21¾	20½	21¾	34⅛	24⅜	29	25½	7½	14	41⅝	40⅜	55¼	46	32¾	1 15/16	⅝
8	38⅛	22⅜	26¼	22⅝	30½	21⅜	39¼	26	23¾	25½	40⅞	29¼	33¾	30	9	16	53⅛	48⅞	65¼	53¾	39⅜	2 3/16	¾
9	44⅛	26¾	30¾	26⅞	35⅞	28⅛	46	30⅜	26⅞	28⅞	47⅜	34	40½	34⅛	10½	18	62	57⅛	76⅜	61	45⅞	2 7/16	¾
10	50⅜	30¼	31¼	30⅛	40⅞	32⅛	52¼	31⅜	30⅛	32	54⅜	38¾	45¼	37¼	10½	20	70¾	64⅜	86⅞	67⅛	52⅜	2 11/16	⅞
11	56⅞	33⅞	38	33⅞	45¼	36⅛	58½	39	33⅜	35⅝	61¼	43½	50	41⅜	12	22	79⅝	71⅞	97½	71¾	58⅞	2 15/16	⅞
12	63⅛	37⅝	42½	37⅝	50¾	40¼	64¼	43¼	37	39	68	48¼	56¾	45	12	24	88⅜	80⅛	108	82	65½	3 7/16	⅞
13	69⅞	41⅝	46¼	41⅞	55⅞	43⅞	71	47⅜	41½	43⅜	74¾	53	61½	50⅛	13½	28	97¼	87⅜	118⅝	91⅜	72	3 15/16	⅞
14	75⅜	45⅛	50⅛	45⅛	60⅞	47⅜	77¼	51⅞	45⅛	46¾	81½	57¾	67¼	53½	13½	32	106	95¼	129⅝	98⅜	78½	4½	⅞
15	82	48⅞	53⅞	48⅞	66	52⅜	83½	56¼	47½	49⅝	88¼	62⅜	72	56⅞	14½	36	114⅛	102⅞	139¾	104⅜	85⅛	4½	⅞
16	88¼	52⅝	58⅜	52⅝	71	56⅛	89¼	60½	51¾	53½	95	67⅜	78¼	60¾	14½	42	123⅜	111¼	150¼	112⅛	91⅝	5	⅞
17	91½	56⅛	62⅜	56⅛	76⅛	59⅞	96	61⅞	53¼	55⅞	101¾	72⅛	83½	63⅛	14½	48	132½	118¾	160⅞	116⅞	98¼	5	1

Double Inlet **Single Width**

Multivane Fan—Design 3

Full Housing **Up Blast Discharge** **Overhung Pulley**



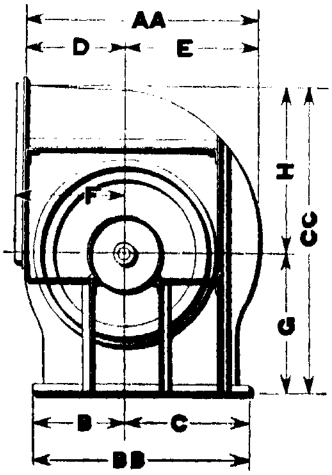
ze	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	10½	8½	12⅜	8½	8⅞	12¼	7⅝	11	11⅛	13¾	10⅛	12¾	13	3½	6	21⅛	19	19⅞	24	13⅛	1¼	½
3	16⅛	13	10½	15⅜	10⅞	10¼	11⅞	9½	12⅛	12⅝	17⅛	12½	16⅛	14¼	4	7	26¼	23½	24⅜	26⅞	16⅞	1¼	½
4	19¼	15	12	18½	13	12⅞	17½	11⅝	13¾	14½	20⅜	14⅞	18½	17⅛	5	8	31½	27	28⅞	30⅞	19¾	1⅜	½
5	22⅜	17¾	11	21½	15¼	14¼	20⅛	13¼	15½	16¼	24	17¼	21⅞	18⅞	5	10	36¾	31¾	33⅜	34⅜	23	1½	½
6	25½	20	15½	21⅝	17⅛	17⅛	22¾	15⅛	17⅜	18¼	27⅜	19⅝	24¼	21½	6	12	42	35½	37⅞	38⅝	26¼	1$\frac{11}{16}$	⅝
6½	28⅝	22¼	17	27¾	19½	19	25⅝	17	19¼	20⅛	30¾	22	26⅝	23⅝	6½	13	47¼	39¼	42⅜	42⅜	29½	1$\frac{15}{16}$	⅝
7	31¾	21½	18½	30¼	21¼	20⅞	28	18⅞	20½	21¾	34⅛	24⅛	29	25½	7½	14	52½	43	46⅞	46	32¾	1$\frac{15}{16}$	⅝
8	38⅛	29	21½	36⅞	26	21⅝	33¼	22⅜	23¾	25½	40⅞	29¼	33¾	30	9	16	62⅞	50½	55⅞	53¾	39⅞	2$\frac{3}{16}$	¾
9	41⅜	31½	25½	43	30⅞	28⅜	38½	26⅜	26⅞	28⅞	47⅝	34	40½	34⅛	10½	18	73⅞	60	64⅞	61	45⅞	2$\frac{7}{16}$	¾
0	50⅝	39	28½	49⅛	31⅝	32⅛	43¾	30⅛	30⅛	32	54⅛	38¼	45¼	37¼	10½	20	83¾	67½	73⅞	67⅜	52⅜	2$\frac{11}{16}$	⅞
1	56⅞	43½	31½	55¼	39	36⅛	49	33⅞	33⅜	35⅛	61¼	43½	50	41⅜	12	22	94¼	75	82⅞	74¾	58⅞	2$\frac{15}{16}$	⅞
2	63⅛	49	36	61⅜	43¼	40⅛	54¼	37⅜	37	39	68	48¼	56¾	45	12	24	104⅝	85	91⅞	82	65½	3$\frac{7}{16}$	⅞
3	69¾	53½	39½	67½	47⅝	43⅞	59½	41⅜	41½	43⅝	74¼	53	61½	50⅝	13½	28	115⅛	93	100⅞	91⅝	72	3$\frac{15}{16}$	⅞
4	75⅝	58	50⅛	73⅝	51⅞	47⅞	61¾	45⅛	45⅛	46¾	81½	57¾	67¼	53½	13½	32	125½	108⅛	109⅞	98⅝	78½	4½	⅞
5	82	62	53⅞	79¾	56¼	52⅛	70	48⅞	47½	49⅝	88¼	62⅜	72	56⅞	14½	36	136	115⅞	118⅞	104⅛	85⅛	4½	⅞
6	88¼	67	58⅝	85⅞	60½	56⅛	75¼	52⅝	51⅜	53½	95	67⅜	78¼	60¾	14½	42	146⅜	125⅝	127⅞	112⅛	91⅝	5	⅞
7	91½	71	62⅜	92	64⅞	59⅞	80½	56⅜	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	156⅞	133⅜	136⅞	116⅞	98¼	5	1

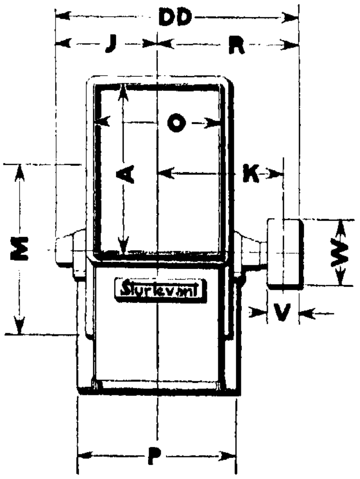
Double Inlet

Multivane Fan—Design 3

Single Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**





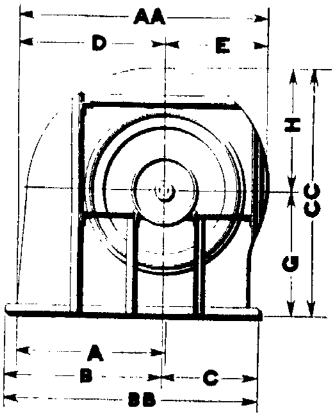
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	13	7	9½	7⅝	10¼	8⅞	10¾	12⅝	11	11⅛	13¾	10⅛	12¾	13	3½	6	17⅞	16½	22⅝	21	13⅛	1¼	½
3	16⅛	8¼	11½	9½	12¼	10¾	13	15⅞	12⅛	12⅜	17⅛	12½	16⅛	14¼	4	7	22¼	20¼	27¾	26⅞	16⅜	1¼	½
4	19¼	10	13	11⅞	15¼	12⅞	15¼	18½	13¼	14½	20⅝	14⅞	18½	17⅛	5	8	26⅝	23	33	30⅞	19¼	1⅜	½
5	22⅛	11¼	15½	13¼	17⅞	14¼	17⅛	21½	15½	16¼	24	17¼	21⅞	17⅞	5	10	31⅛	27¼	38⅛	34⅛	23	1½	½
6	25½	13	17½	15¼	20⅛	17⅛	19¼	24⅝	17⅛	18¼	27⅞	19⅝	24¼	21½	6	12	35½	30½	43⅜	38⅝	26¼	1 11/16	⅝
6½	28⅝	14¼	19½	17	22⅞	19	22	27¾	19⅛	20⅛	30¾	22	26⅜	23⅜	6½	13	39⅞	33¾	48⅝	42⅝	29½	1 15/16	⅝
7	31¼	15½	21½	18⅞	25½	20⅞	24¼	30¾	20½	21¾	34⅛	24⅜	29	25½	7½	14	44¾	37	53¾	46	32¾	1 15/16	⅞
8	38⅛	18½	26¼	22⅝	30½	24⅞	28¼	36⅞	23¾	25½	40⅞	29¼	33¾	30	9	16	53⅛	44¾	65⅝	53¼	39⅛	2 3/16	¾
9	44⅝	22½	30¼	26¼	35⅝	28⅞	33¼	43	26⅞	28⅞	47⅜	34	40½	34⅛	10½	18	62	53¼	76¼	61	45⅞	2 7/16	¾
10	50⅞	25½	34¼	30⅛	40⅝	32⅛	37¾	49⅛	30⅛	32	54⅜	38¼	45¼	37¼	10½	20	70¼	59¾	86⅞	67⅜	52⅜	2 11/16	⅞
11	56⅞	28½	38	33¾	45¾	36¼	42¼	55¼	33⅞	35⅝	61¼	43½	50	41⅜	12	22	79⅜	66½	97½	74¾	58⅞	2 15/16	⅞
12	63⅛	32¼	42¼	37⅝	*50¼	40⅛	46¼	61⅛	37	39	68	48¼	56¾	45	12	24	88¾	75	108⅛	82	65¼	3 7/16	⅞
13	69¼	35½	46¼	41¼	55⅞	43⅞	51¼	67½	41½	43⅛	74¼	53	61½	50⅛	13½	28	97¼	81¾	118¼	91⅝	72	3 15/16	⅞
14	75⅜	50⅛	50⅛	45¼	60⅞	47⅝	55¼	73⅝	45⅛	46¼	81½	57¼	67¼	53½	13½	32	106	100¼	129⅜	98⅝	78½	4½	⅞
15	82	53⅞	53⅞	48⅞	66	52¾	60¼	79¾	47½	49⅝	88¼	62⅝	72	56⅞	14½	36	114⅞	107¾	140	104⅛	85⅛	4½	⅞
16	88¼	58⅝	58⅝	52⅝	71	56⅛	64¾	85⅞	51⅜	53½	95	67⅝	78¾	60¼	14½	42	123⅝	117¼	150⅝	112⅛	91⅝	5	⅞
17	94½	62½	62¾	56½	76½	59¾	69¼	92	53¼	55⅞	101⅛	72⅛	83½	63¾	14½	48	132½	121¼	161¼	116⅞	98¼	5	1

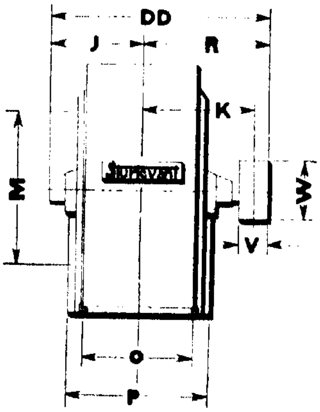
Double Inlet

Multivane Fan—Design 3

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





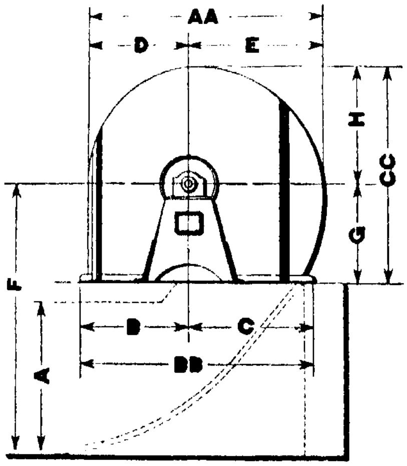
Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
2	12½	13¾	8½	12⅜	8¼	9	10¼	11	11⅛	13¾	9½	12¼	13	3½	6	21⅛	22⅜	19¼	24	13⅛	1¼	½
3	15⅝	17⅜	10½	15⅛	10⅞	11	12¾	12⅝	12⅜	17⅛	11⅞	16⅛	14¾	4	7	26¼	27⅞	23¼	26⅞	16⅜	1¼	½
4	18¾	20½	12	18½	13	13	15¼	13¾	11½	20⅝	14¼	18½	17⅛	5	8	31½	32½	28¼	30⅞	19¼	1⅜	½
5	21⅞	21	14	21½	15¼	15	17⅞	15½	16¼	21	16⅝	21⅞	18⅞	5	10	36¾	38	32⅞	34⅜	23	1½	½
6	25	27⅛	15½	24⅜	17⅛	17	20⅛	17⅛	18¼	27⅜	19	24¼	21½	6	12	42	42⅝	37⅜	38⅝	26¼	1 11/16	⅝
6½	28⅛	30¼	17	27¼	19½	19	22⅞	19¼	20⅛	30¼	21⅛	26⅝	23⅜	6½	13	47¼	47¼	41⅞	42⅝	29½	1 13/16	⅝
7	31¼	33¼	18½	30¼	21¼	21	25½	20½	21¾	34⅛	23¾	29	25½	7½	14	52½	51¾	46½	46	32¼	1 15/16	⅝
8	37½	39⅝	21½	36⅞	26	25	30½	23¾	25½	40⅞	28½	33¾	30	9	16	62⅞	60⅞	55½	53¾	39⅜	2 3/16	¾
9	43¾	46½	25½	43	30⅜	29	35⅝	26⅞	28⅜	47⅝	33¼	40½	34⅛	10½	18	73⅜	72	64⅝	61	45⅞	2 7/16	¾
10	50	52⅞	28½	49⅛	34⅞	33	40⅝	30⅛	32	54⅞	38	45¼	37¼	10½	20	83¼	81⅛	73⅝	67⅜	52⅜	2 11/16	⅞
11	56¼	58¼	31½	55¼	39	37	45¾	33⅞	35⅜	61¼	42¾	50	41⅜	12	22	94¼	90¼	82¼	74¾	58⅞	2 15/16	⅞
12	62½	65⅞	36	61⅛	43¼	41	50¼	37	39	68	47½	56¼	45	12	24	104⅝	101⅞	91¼	82	65½	3 7/16	⅞
13	68¾	72	39½	67½	47⅞	45	55⅞	41½	43⅜	74¼	52¼	61½	50⅛	13½	28	115⅛	111½	100⅞	91⅝	72	3 15/16	⅞
14	75	78⅛	50⅛	73⅞	51⅞	49	60⅞	45⅛	46¾	81½	57	67¼	53½	13½	32	125½	128¾	109⅞	98⅝	78½	4¼	⅞
15	81¼	84¾	53⅞	79¾	56¼	53	66	47½	49⅝	88¼	61¾	72	56⅞	14½	36	136	138⅝	119	104⅜	85⅛	4½	⅞
16	87½	91⅞	58⅝	85⅞	60½	57	71	51⅜	53½	95	66½	78¾	60¼	14½	42	146⅛	150½	128	112⅛	91⅝	5	⅞
17	93¾	98	62⅛	92	64⅛	61	76⅛	53¾	55⅞	101¾	71¼	83½	63⅛	14½	48	156⅞	160⅜	137¼	116⅞	98¼	5	1

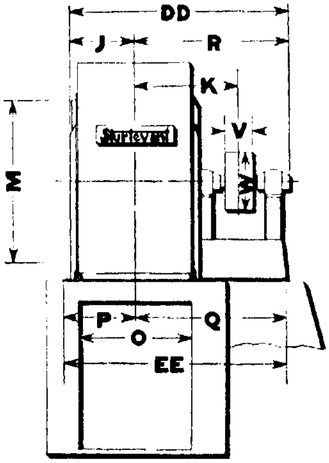
Single Inlet

Multivane Fan—Design 3

Single Width

⅞ Housing **Bottom Horizontal Discharge** **Overhung Wheel**



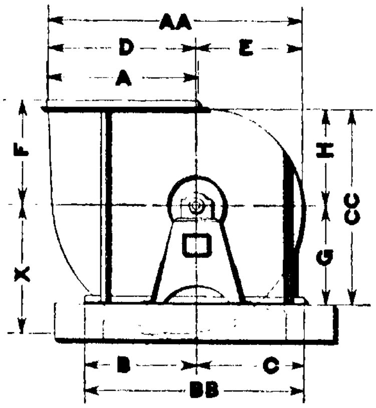


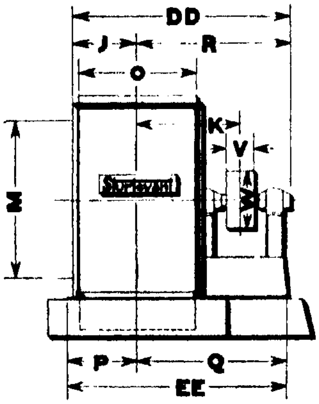
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia	Anchor Bolts	
																									Hanger	Fan
10	50	35⅞	39½	32⅜	43⅞	86	32	37⅜	21 3/16	33¾	51⅜	38	22⅞	48⅜	49⅞	10½	20	76¼	75⅜	69⅜	71 1/16	71¼	52⅛	2 11/16	1	⅞
11	56¼	39 15/16	41⅛	36 7/16	49⅜	96	35¼	42⅞	23 9/16	36⅝	61¼	42¾	25	53½	54¾	12	22	85 13/16	81 1/16	78⅛	78 5/16	78½	58⅞	2 15/16	1	⅞
12	62½	44 13/16	49¼	40 7/16	54 13/16	106	39½	47	26	40⅞	68	47½	28⅝	59	60	12	24	95¼	94 11/16	86¾	86	87⅝	65½	3 7/16	1	⅞
13	68¾	49	54¼	44½	60 5/16	116	43¼	51¾	28⅜	44¾	74¾	52¼	30¼	65⅞	67⅛	13½	28	104 13/16	103¼	95	95½	96⅛	72	3 15/16	1	⅞
14	75	53½	60	48½	65¾	126	47	56⅜	31¼	48⅜	81½	57	33⅝	70¼	72½	13½	32	114¼	113½	103⅜	103¾	103⅞	78½	4½	1	⅞
15	81¼	57 9/16	64½	52 9/16	71¼	136	50¼	61⅝	33⅝	51	88¼	61¾	36	73⅞	75⅞	14½	36	123 13/16	122 1/16	111⅞	109½	109⅞	85⅛	4½	1	⅞
16	87½	62 9/16	70	56 9/16	76 11/16	146	54½	65¾	36	55	95	66½	39⅜	79⅝	81⅞	14½	42	133¼	132 9/16	120¼	117⅞	119	91⅝	5	1¼	⅞
17	93¼	66⅝	74¼	60¼	82 9/16	156	58¼	70½	38⅜	57⅝	101¾	71¼	41¾	82	84¼	14½	48	142 13/16	140⅞	128¾	122⅝	123¾	98¼	5	1¼	1

Single Inlet **Single Width**

Multivane Fan—Design 3

⅞ Housing **Up Blast Discharge** **Overhung Wheel**





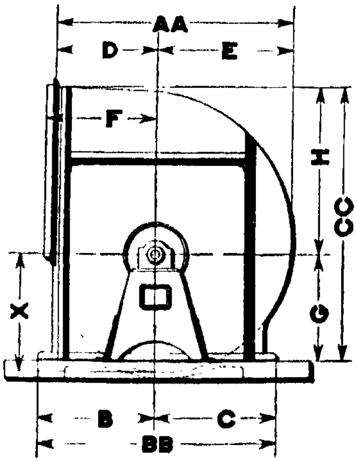
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																										Hanger	Fan
10	50⅝	36	28½	49⅛	31⅝	32⅛	32	30⅛	21 3/16	33¼	54⅜	38¾	22⅜	18⅝	49⅞	10½	20	40⅜	83¾	64½	62⅛	71 1/16	71¼	52⅜	2 11/16	1	⅞
11	56⅞	40	31½	55¼	39	36⅜	35¼	33⅞	23 9/16	36⅞	61¼	43½	25	53½	54¾	12	22	45¾	94¼	71½	69⅝	78 5/16	78½	58⅞	2 15/16	1	⅞
12	63⅛	45¼	36	61⅞	43¼	40⅛	39½	37⅝	26	40⅜	68	48¼	28⅜	59	60	12	24	50¾	104⅜	81¼	77⅛	86	87⅜	65½	3 7/16	1	⅞
13	69⅜	49¼	39½	67½	47⅜	43⅞	43¼	41⅜	28⅞	44¾	74¾	53	30¾	65⅞	67⅛	13½	28	55⅞	115⅛	88¾	84⅝	95½	96⅛	72	3 15/16	1	⅞
14	75⅝	55	50⅛	73⅝	51⅞	47⅝	47	45⅛	31¼	48⅝	81½	57⅜	33⅝	70¼	72½	13½	32	60⅞	125½	105⅛	92⅛	103¼	103⅞	78½	4½	1	⅞
15	82	59¼	53⅞	79¼	56¼	52⅜	50¾	48⅞	33⅝	51	88¼	62⅛	36	73⅝	75⅞	14½	36	66	136	113⅛	99⅝	109½	109⅞	85⅛	4½	1	⅞
16	88¼	64	58⅛	85⅞	60½	56⅛	54½	52⅝	36	55	95	67⅜	39⅜	79⅝	81⅞	14½	42	71	146⅜	122⅝	107⅛	117⅞	119	91⅝	5	1¼	⅞
17	94½	68	62⅜	92	64⅞	59⅞	58¼	56⅛	38⅝	57⅞	101¾	72⅛	41¾	82	84¼	14½	48	76½	156⅞	130⅜	114⅜	122⅝	123¾	98¼	5	1¼	1

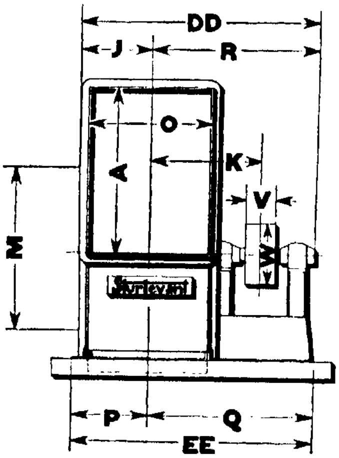
Single Inlet

Multivane Fan—Design 3

Single Width

⅞ Housing **Top Horizontal Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																										Hanger	Fan
10	50 3/8	25 1/2	31 1/4	30 1/8	10 3/8	32 1/8	32	49 1/8	21 3/16	33 1/4	51 1/4	38 3/4	22 5/8	18 3/8	49 7/8	10 1/2	20	34 3/8	70 1/4	59 3/4	81 1/8	71 1/16	71 1/4	52 3/8	2 11/16	1	7/8
11	56 7/8	28 1/2	38	33 7/8	15 1/4	36 1/8	35 3/4	55 1/4	23 9/16	36 5/8	61 1/4	43 1/2	25	53 1/2	54 1/4	12	22	39	79 5/8	66 1/2	91	78 5/16	78 1/2	58 7/8	2 15/16	1	7/8
12	63 1/8	32 1/2	42 1/2	37 5/8	50 1/4	40 1/4	39 1/2	61 1/4	26	40 1/8	68	48 1/4	28 1/4	59	60	12	24	43 1/4	88 3/8	75	100 7/8	86	87 3/8	65 1/2	3 7/16	1	7/8
13	69 1/8	35 1/2	46 1/4	41 1/8	55 7/8	43 7/8	43 1/4	67 1/2	28 3/8	44 1/4	74 3/4	53	30 1/4	65 3/8	67 1/8	13 1/2	28	47 5/8	97 1/4	81 3/4	110 3/4	95 1/2	96 1/8	72	3 15/16	1	7/8
14	75 3/8	50 1/8	50 1/8	45 1/8	60 7/8	47 3/8	47	73 5/8	31 1/4	48 1/8	81 1/2	57 3/4	33 5/8	70 1/4	72 1/2	13 1/2	32	51 7/8	106	100 1/4	120 3/8	103 3/4	103 7/8	78 1/2	4 1/2	1	7/8
15	82	53 7/8	53 7/8	48 7/8	66	52 1/8	50 3/4	79 1/4	33 5/8	51	88 1/4	62 3/8	36	73 3/8	75 7/8	14 1/2	36	56 1/4	114 7/8	107 3/4	130 1/2	109 1/2	109 3/8	85 1/8	4 1/2	1	7/8
16	88 1/4	58 3/8	58 3/8	52 3/8	71	56 1/8	54 1/2	85 7/8	36	55	95	67 3/4	39 1/4	79 5/8	81 7/8	14 1/2	42	60 1/2	123 3/8	117 1/4	140 3/4	117 7/8	119	91 3/8	5	1 1/4	7/8
17	94 1/4	62 1/4	62 3/8	56 3/8	76 1/8	59 7/8	58 1/4	92	38 1/4	57 3/8	101 1/4	72 1/8	41 1/4	82	84 1/4	14 1/2	48	64 7/8	132 1/2	121 1/4	150 3/4	122 5/8	123 3/4	98 1/4	5	1 1/4	1

Single Inlet

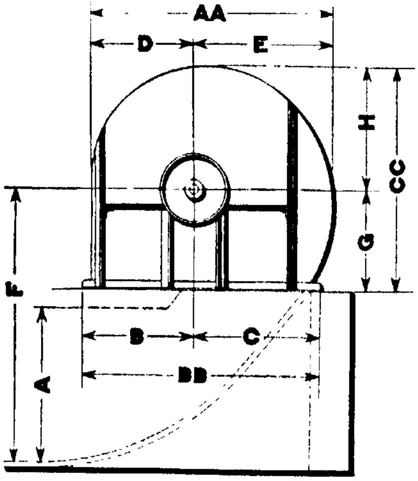
Multivane Fan—Design 3

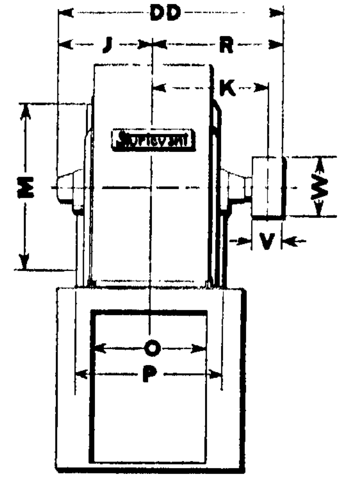
Single Width

⅞ Housing

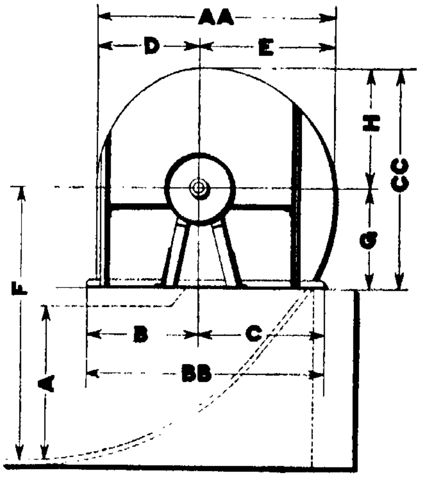
Bottom Horizontal Discharge

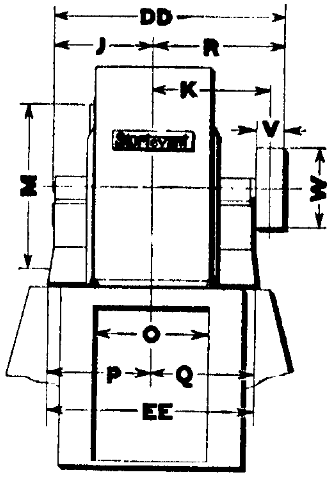
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50	35⅞	39½	32⅜	43⅞	86	32	37⅝	30⅛	32	54⅝	38	45¼	37¼	10½	20	76¼	75⅝	69⅝	67⅜	52⅜	2 11/16	⅞
11	56¼	39 13/16	41⅛	36 7/16	49⅜	96	35¾	42⅜	33⅜	35⅝	61¼	42⅞	50	41⅝	12	22	85 13/16	84 1/16	78⅝	74¾	58⅞	2 15/16	⅞
12	62½	44 15/16	49¼	40 7/16	54 13/16	106	39½	47	37	39	68	47½	56¾	45	12	24	95¼	94 11/16	86½	82	65½	3 7/16	⅞
13	68¾	49	54¼	44½	60 5/16	116	43¼	51¾	41½	43⅜	7 ¾	52¼	61½	50⅛	13½	28	104 11/16	103¼	95	91⅝	72	3 15/16	⅞
14	75	5 ½	60	48½	65¾	126	47	56⅝	45⅛	46¾	81½	57	67¼	53½	13½	32	114¼	113½	103⅝	98⅝	78½	4½	⅞
15	81¼	57 9/16	64½	52 9/16	71¼	136	50¾	61⅛	47½	49⅝	88¼	61⅜	72	56⅞	14½	36	123 13/16	12 1/16	111⅞	104⅜	85⅛	4½	⅞
16	87½	62 9/16	70	56 9/16	76 11/16	146	54½	65¾	51⅜	53½	95	66½	78¾	60¾	14½	42	133¼	132 9/16	120¼	112¼	91⅝	5	⅞
17	93¾	66⅝	74¼	60⅝	82 3/16	156	58¼	70⅛	53⅝	55⅝	101¾	71⅛	83¼	63⅛	14½	48	142 13/16	140⅞	128⅝	116⅞	98¼	5	1





Size	A	B	C	D	E	F	G	H	J	M	O	P	Q	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																				Ped.	Fan
18	100	70⅝	79	64⅜	87⅝	166	62	75¼	65¼	108⅝	76	65 1/16	65 1/16	152¼	149⅝	137⅛	130⅛	104¾	5½	1¼	1
20	112½	78 11/16	88½	72 11/16	98 9/16	185	68½	84⅛	70¼	122⅛	85½	71 5/16	71 5/16	171¼	167 3/16	153	142⅝	118	6	1¼	1
22	125	86¾	98½	80¾	109½	204	75	93⅞	75	135⅝	95	77 1/16	77 1/16	190¼	185¼	168⅞	154⅛	131	6	1¼	1
24	137½	94 13/16	107½	88 13/16	120 7/16	223	81½	103¼	79¼	149⅛	101½	82 13/16	82 13/16	209¼	202 5/16	184¾	165⅝	144	6	1¼	1⅛
26	150	102⅞	117½	96⅞	131⅜	242	88	112⅝	84⅛	162⅝	114	88 1/16	88 1/16	228¼	220⅞	200⅝	176⅛	157	6	1¼	1⅛

Single Inlet

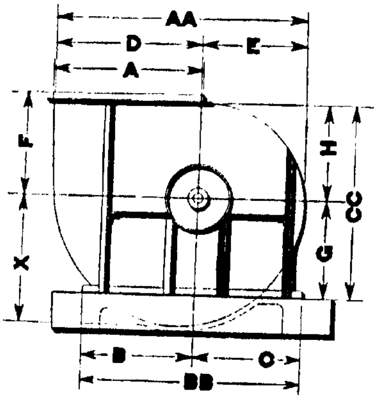
7/8 Housing

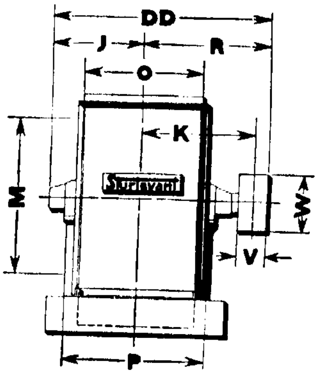
Multivane Fan—Design 3

Up Blast Discharge

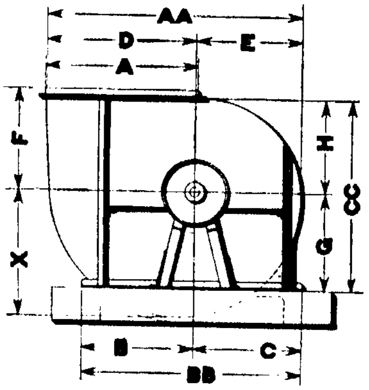
Single Width

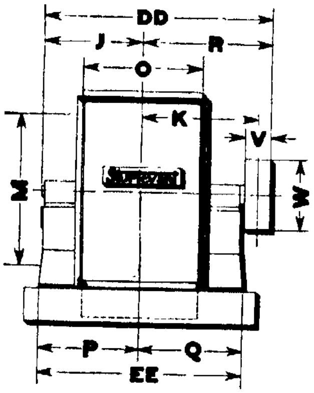
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50⅜	36	28½	49⅛	34⅝	32⅛	32	30⅛	30⅛	32	54⅜	38¾	45¼	37¼	10½	20	40⅝	83¾	64½	62⅛	67⅜	52⅜	2 11/16	⅝
11	56⅞	40	31½	55¼	39	36⅜	35¾	33⅞	33⅜	35⅝	61¼	43½	50	41⅞	12	22	45¾	94¼	71½	69⅝	74¼	58⅞	2 15/16	⅝
12	63⅛	45¼	36	61⅜	43¼	40⅛	39¼	37⅞	37	39	68	48¼	56¾	45	12	24	50¾	104⅝	81¼	77⅛	82	65½	3 7/16	¾
13	69⅜	49½	39½	67½	47⅝	43⅞	43¼	41⅜	41½	43⅜	74¾	53	61⅛	50⅛	13½	28	55⅞	115⅛	89	84⅝	91⅝	72	3 15/16	¾
14	75⅝	55	50⅛	73⅝	51⅞	47⅝	47	45⅛	45¼	46¾	81½	57¾	67¼	53½	13½	32	60⅞	125½	105⅛	92⅛	98¾	78½	4 7/16	¾
15	82	59¼	53⅞	79¾	56¼	52⅜	50¾	48⅞	47½	49⅝	88¼	62⅝	72	56⅞	14½	36	66	136	113⅛	99⅝	104⅜	85⅛	4½	¾
16	88¼	64	58⅝	85⅞	60½	56⅛	54½	52⅝	51¾	53½	95	67⅜	78¾	60¾	14½	42	71	146⅜	122⅝	107⅛	112½	91⅝	5	⅞
17	94½	68	62⅛	92	64⅞	59⅞	58¼	56⅜	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	76⅛	156⅞	130⅛	114⅝	116⅞	98¼	5	1





Size	A	B	C	D	E	F	G	H	J	M	O	P	Q	X	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Ped.	Anchor Bolts Fan
18	100¾	72¼	66⅛	98⅛	69⅛	63⅝	62	60⅛	65¼	108⅝	76⅞	65 1/16	65 1/16	81⅜	167¼	138⅜	122⅛	130⅛	104¼	5½	1¼	1
20	113¼	81	73⅝	110⅜	77⅞	72⅛	68½	67⅝	70¼	122⅛	86½	71 5/16	71 5/16	91¼	188¼	154⅝	136⅛	142⅝	118	6	1¼	1
22	125⅞	90	81⅛	122⅝	86⅜	79⅝	75	75⅛	75	135⅝	96	77 1/16	77 1/16	101⅛	209	171⅛	150⅛	154⅛	131	6	1¼	1
24	138⅜	98½	88⅝	134⅞	95	87⅛	81½	82⅝	79¾	149⅛	105½	82 13/16	82 13/16	111⅛	229⅞	187⅛	164⅛	165⅝	144	6	1¼	1⅛
26	150⅞	108	96⅛	147⅛	103⅝	94⅝	88	90⅛	84½	162⅝	115	88 1/16	88 1/16	121⅝	250¾	204⅛	178⅛	176⅛	157	6	1¼	1⅛

Single Inlet

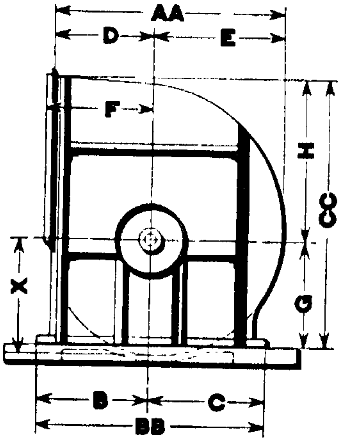
Multivane Fan—Design 3

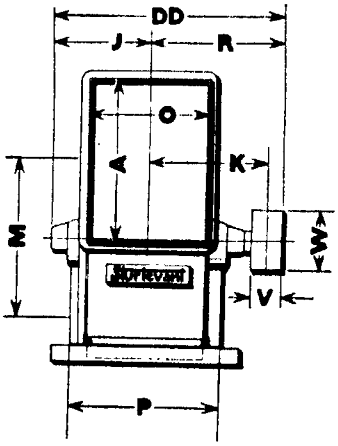
Single Width

⅞ Housing

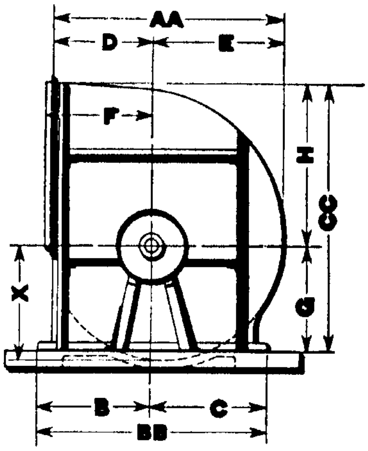
Top Horizontal Discharge

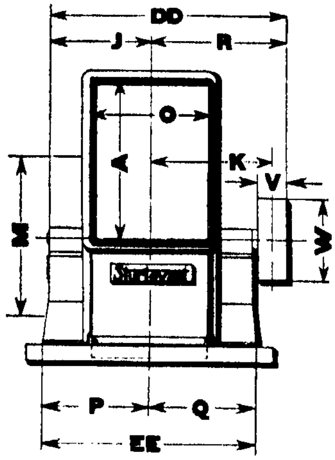
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50⅝	25½	31¼	30⅛	40⅝	32⅛	32	49⅛	30⅛	32	54⅜	38¾	45¼	37¾	10¼	20	34⅜	70¾	59¾	81⅛	67⅞	52⅜	2 11/16	⅞
11	56⅞	28½	38	33⅞	45¾	36⅜	35¾	55¼	33¼	35⅜	61¼	43½	50	41⅜	12	22	39	79⅝	66½	91	74⅝	58⅞	2 15/16	⅞
12	63⅛	32½	42½	37⅝	50¾	40⅛	39½	61⅜	37	39	68	48¼	56¾	45	12	24	43¼	88⅜	75	100⅞	82	65½	3 7/16	⅞
13	69⅜	35½	46¼	41⅜	55⅞	43⅞	43¼	67½	41½	43⅞	74¾	53	61½	50⅛	13½	28	47⅝	97¼	81¾	110¾	91⅝	72	3 15/16	⅞
14	75⅝	50⅛	50⅛	45⅛	60⅞	47⅜	47	73⅜	45⅛	46¾	81½	57⅜	67¼	53½	13½	32	51⅞	106	100¼	120⅜	98⅝	78½	4½	⅞
15	82	53⅞	53⅞	18⅞	66	52⅜	50¾	79⅜	47⅜	49⅜	88¼	62⅝	72	56⅞	14½	36	56¼	114⅞	107¾	130⅛	104¼	85⅛	4½	⅞
16	88¼	58⅝	58⅝	52⅝	71	56⅛	54½	85⅞	51⅝	53½	95	67⅝	78¾	60¾	14½	42	60½	123⅝	117¼	140⅜	112⅜	91⅝	5	⅞
17	94½	62⅜	62⅜	56⅛	76⅛	59⅞	58¼	92	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	64⅞	132¼	124¾	150¼	116⅞	98¼	5	1





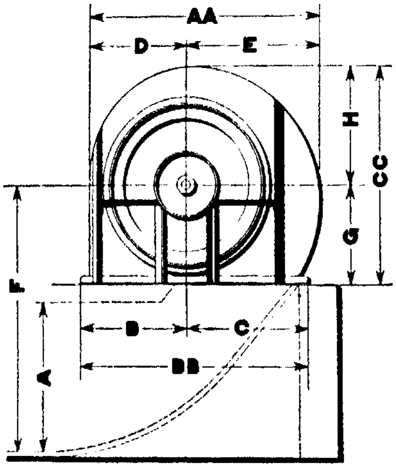
Size	AA	B	C	D	E	F	G	H	J	M	O	P	Q	X	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																					Pedestal	Fan
18	100¾	66⅛	66⅛	60⅛	81⅛	63⅝	62	98⅛	65¼	108⅜	76⅞	65 1/16	65 1/16	69⅛	141¼	132¼	160⅛	130⅛	104¾	5½	1¼	1
20	113⅜	73⅝	73⅝	67⅜	91¼	72⅛	68½	110⅜	70¼	122⅜	86½	71 5/16	71 5/16	77¾	158⅝	147¼	178⅞	142⅝	118	6	1¼	1
22	125⅞	81⅛	81⅛	75⅛	101¾	79⅝	75	122⅝	75	135⅝	96	77 1/16	77 1/16	86¼	176⅞	162¼	197⅝	154⅛	131	6	1¼	1
24	138⅜	88⅝	88⅝	82⅝	111½	87⅛	81½	134⅞	79¾	149⅛	105½	82 13/16	82 13/16	95	194⅛	177¼	216⅜	165⅝	144	6	1¼	1⅛
26	150⅞	96⅛	96⅛	90⅛	121⅝	94⅝	88	147⅛	84½	162⅝	115	88 1/16	88 1/16	103⅝	211¾	192¼	235⅛	176⅛	157	6	1½	1⅛

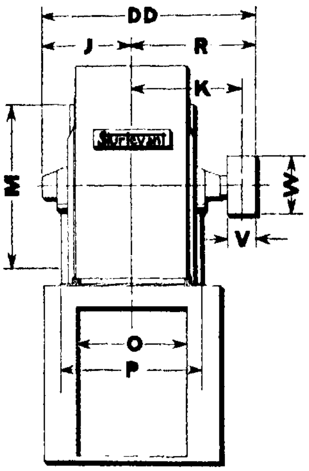
Double Inlet

Multivane Fan—Design 3

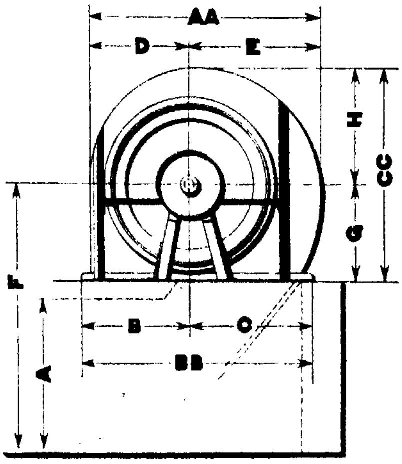
Single Width

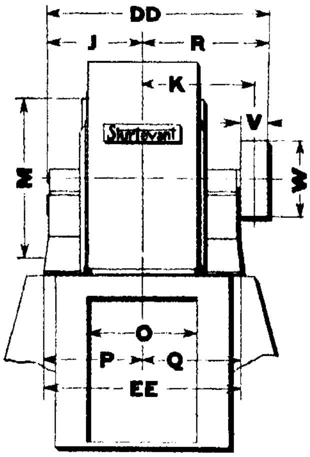
⅞ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50	35⅞	39½	32⅜	43⅞	86	32	37⅝	30⅝	32	54⅜	38	45¼	37¼	10½	20	76¼	75⅜	69⅝	67⅞	52⅛	2 11/16	⅞
11	56¼	39 7/16	44⅝	36 7/16	49½	96	35¾	42⅜	33⅜	35⅜	61¼	42¾	50	41⅞	12	22	85 15/16	84 1/16	78⅛	74¼	58⅞	2 15/16	⅞
12	62½	44 15/16	49¾	40 7/16	54 13/16	106	39½	47	37	39	68	47½	56¼	45	12	21	95¼	94 11/16	86½	82	65½	3 7/16	⅞
13	68¾	49	54¼	41½	60 5/16	116	43¾	51¼	41½	43⅞	74¾	52¼	61½	50⅛	13½	28	101 13/16	103¼	95	91⅝	72	3 15/16	⅞
14	75	53½	60	45½	65¾	126	47	56⅛	45⅛	46¾	81½	57	67¼	53½	13½	32	111¼	113½	103⅛	98⅝	78½	4½	⅞
15	81¼	57 9/16	64½	52 9/16	71¼	136	50¾	61⅛	47½	49⅝	88¼	61¾	72	56⅞	14½	36	123 13/16	122 1/16	111⅞	104⅜	85⅛	4½	⅞
16	87½	62 9/16	70	56 9/16	76 11/16	146	54½	65¾	51⅝	53½	95	66½	78¾	60¾	14½	42	133¼	132 9/16	120¼	112⅜	91⅞	5	⅞
17	93¾	66⅝	74¼	60⅝	82 3/16	156	58¼	70½	53¾	55⅞	101¾	71¼	83½	63⅛	14½	48	142 13/16	140⅞	128¾	116⅞	98¾	5	1





Size	A	B	C	D	E	F	G	H	J	M	O	P	Q	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Ped.	Anchor Bolts Fan
18	100	70⅝	79	64⅞	87⅜	166	62	75⅛	65½	108⅜	76	65 1/16	65 1/16	152¼	149⅝	137⅛	130⅛	101¾	5½	1¼	1
20	112½	78 13/16	88¼	72 11/16	98 9/16	185	68½	84½	70¼	122⅝	85½	71 5/16	71 5/16	171¼	167 1/16	153	142⅜	118	6	1¼	1
22	125	86¾	98½	80¾	109½	204	75	93⅞	75	135⅞	95	77 1/16	77 1/16	190¼	185¼	168⅞	151⅛	131	6	1¼	1
24	137½	94 13/16	107½	88 13/16	120 7/16	223	81½	103¼	79¾	149⅛	104½	82 13/16	82 13/16	209¼	202 5/16	184¾	165⅝	144	6	1¼	1⅛
26	150	102⅞	117½	96⅝	131⅝	242	88	112⅝	84½	162⅜	114	88 1/16	88 1/16	228¼	220⅜	200⅝	176⅛	157	6	1¼	1⅛

Double Inlet

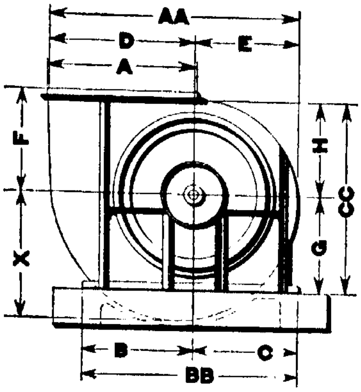
Multivane Fan—Design 3

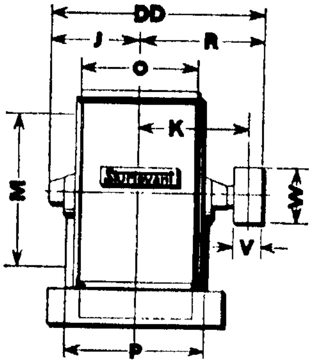
Single Width

⅞ Housing

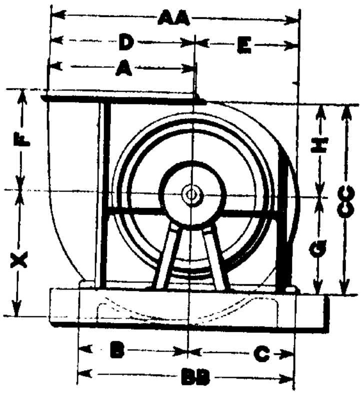
Up Blast Discharge

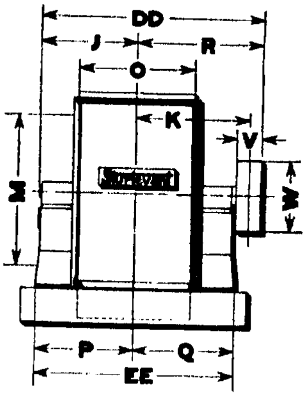
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50⅝	36	28½	49⅛	34⅝	32⅛	32	30⅛	30⅛	32	54½	38¾	45¼	37¼	10½	20	40⅝	83⅞	64½	62⅛	67⅝	52⅜	2 11/16	⅞
11	56⅞	40	31½	55¼	39	36⅛	35¾	33⅞	33⅞	35⅜	61¼	43½	50	41⅝	12	22	45⅞	94¼	71½	69⅝	74¾	58⅞	2 15/16	⅞
12	63⅛	45¼	36	61⅛	43¼	40⅛	39½	37⅝	37	39	68	48¼	56¼	45	12	24	50¾	104⅝	81¼	77⅛	82	65½	3 7/16	⅞
13	69⅜	49½	39½	67½	47⅝	43⅞	43¼	41⅜	41½	43⅜	74¾	53	61½	50⅛	13½	28	55⅞	115⅛	89	84⅝	91⅝	72	3 15/16	⅞
14	75⅝	55	50⅛	73⅝	51⅞	47⅞	47	45⅛	45⅛	46¾	81½	57¾	67¼	53⅜	13½	32	60⅞	125½	105⅛	92⅜	98⅝	78½	4½	⅞
15	82	59¼	53⅞	79¾	56¾	52⅜	50¾	48⅞	47½	49⅝	88¼	62⅝	72	56⅞	14½	36	66	136	113⅛	99⅝	104⅞	85⅛	4½	⅞
16	88¼	64	58⅝	85⅞	60½	56⅛	54½	52⅝	51⅛	53½	95	67⅜	78¾	60¾	14½	42	71	146⅜	122⅛	107⅛	112⅛	91⅝	5	⅞
17	94½	68	62⅜	92	64¾	59⅞	58¼	56⅜	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	76⅛	156⅞	130⅜	114⅝	116⅞	98¼	5	1





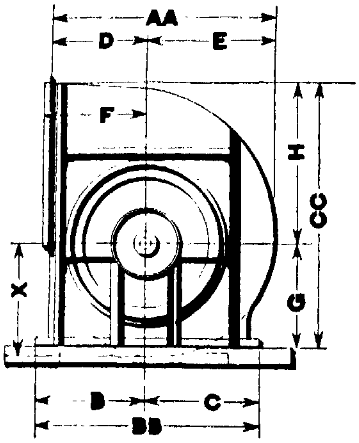
ize	A	B	C	D	E	F	G	H	J	M	O	P	Q	X	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Pedestal	Anchor Bolts Fan
8	100¼	72¼	66⅛	98⅜	69⅛	63⅝	62	60⅛	65¼	108⅝	76⅞	65 1/16	65 1/16	81⅛	167¼	138⅜	122⅛	130⅛	104¼	5½	1¼	1
0	113⅛	81	73⅝	110⅜	77¼	72⅛	68½	67⅝	70¼	122⅛	86½	71 5/16	71 5/16	91¼	188½	154⅝	136⅛	142⅝	118	6	1¼	1
2	125⅞	90	81⅛	122⅝	86⅜	79⅞	75	75⅛	75	135⅝	96	77 1/16	77 1/16	101⅜	209	171½	150⅛	154⅛	131	6	1¼	1
4	138⅜	98½	88⅝	134⅞	95	87⅛	81½	82⅝	79¾	149⅛	105½	82 13/16	82 13/16	111½	229⅞	187⅛	164⅛	165⅝	144	6	1¼	1⅛
6	150⅞	108	96⅛	147⅛	103⅝	94⅝	88	90⅛	84½	162⅝	115	88 1/16	88 1/16	121⅝	250¾	204⅛	178⅛	176⅛	157	6	1¼	1⅛

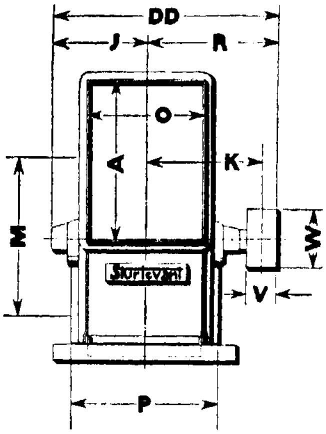
Double Inlet

Multivane Fan—Design 3

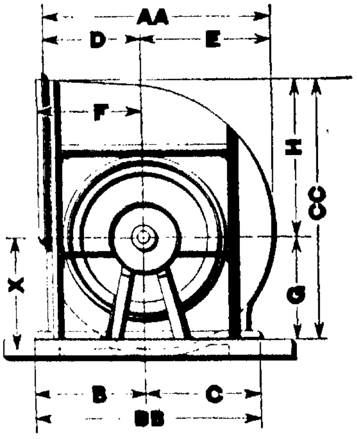
Single Width

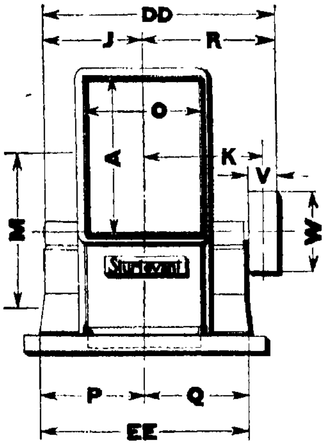
⅞ Housing *Top Horizontal Discharge* *Overhung Pulley*





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50⅝	25½	34¼	30⅛	40⅝	32⅛	32	49⅛	30⅛	32	54¾	38¾	45¼	37¼	10½	20	31⅝	70¾	59¾	81⅛	67⅜	52⅛	2 11/16	⅞
11	56⅞	28½	38	33⅞	45¾	36⅜	35¾	55¼	33⅜	35⅜	61¼	43½	50	41⅜	12	22	39	79⅝	66½	91	74¾	58⅞	2 15/16	⅞
12	63⅛	32½	42½	37⅝	50¾	40⅛	39⅛	61¾	37	39	68	48¼	56¾	45	12	24	43¼	88⅜	75	100⅞	82	65½	3 7/16	⅞
13	69⅜	35½	46¼	41⅜	55⅞	43⅞	43¼	67¼	41½	43⅝	74¾	53	61½	50⅛	13½	28	47⅝	97¼	81¾	110½	91⅝	72	3 15/16	⅞
14	75⅝	50⅛	50⅛	45⅜	60⅝	47⅝	47	73⅝	45⅛	46¼	81½	57¾	67¼	53½	13½	32	51⅞	106	100¼	120⅝	98⅝	78½	4½	⅞
15	82	53⅞	53⅞	48⅞	66	52⅝	50¾	79¾	47½	49⅜	88¼	62⅜	72	56⅞	14½	36	56¼	114⅞	107¾	130½	104⅜	85⅛	4½	⅞
16	88¼	58⅝	58⅝	52⅜	71	56⅛	54½	85⅞	51⅜	53½	95	67⅜	78¾	60¾	14½	42	60½	123⅜	117¼	140⅜	112⅛	91⅝	5	⅞
17	94½	62⅜	62⅜	56⅛	76⅛	59⅞	58¼	92	53¾	55⅞	101¾	72⅛	83½	63⅛	14½	48	61⅞	132¼	124¾	150¼	116⅞	98¼	5	1

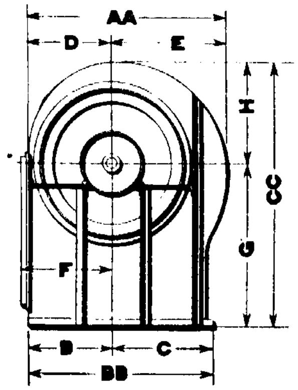


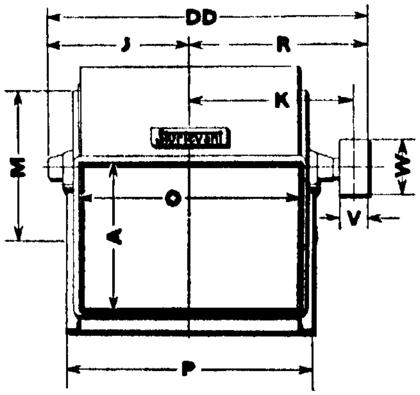


Size	A	B	C	D	E	F	G	H	J	M	O	P	Q	X	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																					Pedestal	Fan
18	100¾	66⅛	66⅛	60⅝	81⅛	63⅝	62	98⅛	65¼	108⅝	76⅜	65 1/16	65 1/16	69⅛	141¾	132¼	160⅛	130⅛	104¼	5½	1¼	1
20	113⅜	73⅝	73⅝	67⅛	91¼	72⅛	68⅜	110½	70¼	122⅛	86½	71 5/16	71 5/16	77¼	158⅜	147¼	178⅞	142⅝	118	6	1¼	1
22	125⅞	81⅛	81⅛	75⅛	101⅜	79⅝	75	122⅞	75	135⅞	96	77 1/16	77 1/16	86¾	176½	162¼	197⅞	154⅛	131	6	1¼	1
24	138⅜	88¾	88¾	82⅝	111½	87⅛	81½	134⅞	78¾	149⅛	105½	82 11/16	82 11/16	95	194⅛	177½	216⅜	165⅜	144	6	1¼	1⅛
26	150⅞	96⅛	96⅛	90⅝	121⅛	91⅝	88	147⅛	84½	162¾	115	88 1/16	88 1/16	103⅞	211¾	192¼	235⅛	176⅛	157	6	1¼	1¼

Double Inlet # Multivane Fan—Design 3 **Double Width**

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																							Pedestals	Fan
2	13	7⅝	9½	7⅝	10¼	8⅞	14¾	8¾	14½	15⅞	13¾	19⅝	22¼	17⅝	3½	7	17⅞	17⅛	23½	32⅛	13⅛	1¼		½
3	16⅛	9½	11½	9½	12¾	10¾	17⅞	10⅞	17⅛	18¾	17⅛	24⅝	28	20¼	4	8½	22¼	21	28¾	37⅜	16⅜	1⅜		½
4	19¼	11⅜	13	11⅜	15¼	12⅞	21	13	20	22⅛	20⅝	29⅛	32¾	24⅝	5	11	26⅝	24⅜	34	44⅝	19¾	1½		½
5	22⅝	13¼	15½	13¼	17⅞	14¾	24⅛	15¼	22⅞	25⅜	24	33⅞	38½	28⅝	6½	12	31⅛	28¾	39⅜	51½	23	1 11/16		½
6	25½	15⅛	17½	15⅛	20⅜	17⅛	27¼	17⅛	25⅞	28⅜	27⅜	38⅝	43¼	31⅝	6½	14	35½	32⅝	44⅜	57½	26¼	1 15/16		⅝
6½	28⅝	17	19½	17	22⅞	19	30⅜	19½	29	31¾	30¾	43⅜	48	35¼	7	16	39⅞	36½	49⅞	64¼	29½	2 3/16		⅝
7	31¾	18⅞	21½	18⅞	25½	20⅞	33½	21¾	31⅜	34½	34⅛	48⅛	52¼	38½	8	18	44⅜	40⅜	55¼	69⅞	32¼	2 3/16		⅝
8	38⅛	22⅝	26¼	22⅝	30½	24⅝	39¾	26	36⅝	40⅝	40⅞	57⅜	62¼	45⅝	10	22	53⅛	48⅞	65¾	92¼	39⅜	2 7/16		¾
9	44⅜	26⅜	30¾	26⅜	35⅝	28⅜	46	30⅜	42⅛	47	47⅝	67¼	73¾	53¼	12½	24	62	57⅛	76⅜	95⅜	45⅞	2 11/16		¾
10	50⅝	30⅛	34¼	30⅛	40⅜	32⅛	52¼	34⅝	47⅜	52¾	54⅜	76¾	83¼	59½	13½	28	70½	64⅜	86⅞	106⅞	52⅝	2 15/16		⅞
11	56⅞	33⅞	38	33⅞	45¾	36⅜	58½	39	53⅞	58⅞	61¼	86¼	92¾	65⅞	14	32	79⅝	71⅞	97½	119¾	58⅞	3 7/16		⅞
12	63⅛	37⅝	42½	37⅝	50¾	40⅛	64¾	43¼	59⅝	65⅞	68	95¼	104¼	73⅝	15½	36	88⅜	80⅛	108	133¼	65½	3 11/16		⅞
13	69⅜	41⅜	46½	41⅜	55⅞	43⅞	71	47⅜	64⅜	70⅜	74¾	105¼	113¾	78⅜	15½	40	97¼	87⅞	118⅜	142¾	72	3 15/16		⅞
14	75⅝	45⅛	50⅛	45⅛	60⅞	47⅝	77¼	51⅞	70⅜	76⅝	81½	114¾	124¼	84⅝	16	42	106	95¼	129⅛	155	78½	4½		⅞
15	82	48⅞	53⅞	48⅞	66	52⅜	83½	56¼	76⅝	82⅞	88¼	124⅜	133¾	90⅞	16	46	114⅞	102¾	139¾	167½	85⅛	5		⅞
*16	88¼	52⅝	58⅝	52⅝	71	56⅛	89¾	60½	90¼	99 9/16	95	133⅞	190⅛	107 9/16	16½	48	123⅝	111¼	150¼	197 13/16	91⅝	6	1¼	⅞
*17	94½	56⅜	62⅜	56⅜	76⅛	59⅞	96	64⅞	95	105 5/16	101¾	143⅜	200⅜	114 13/16	19	52	132½	118¾	160⅞	209 13/16	98¼	6	1¼	1

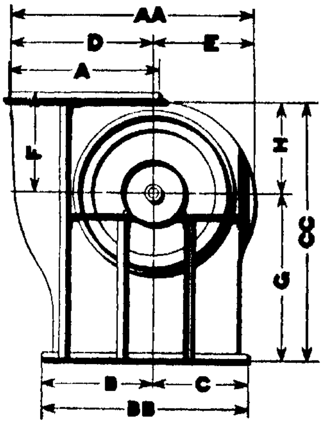
* These sizes differ from others, in that they have independent pedestals.

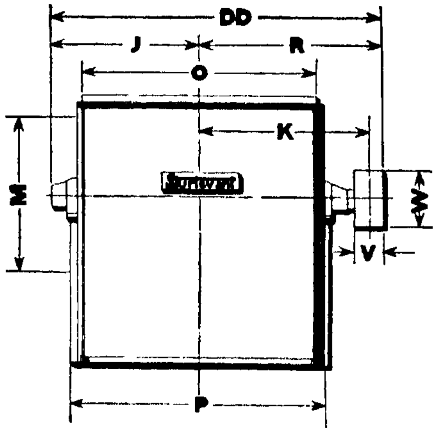
Double Inlet

Multivane Fan—Design 3

Double Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Whee Diameter	Shaft Dia.	Anchor Bolts	
																							Pedestal	Fan
2	13	10½	8½	12⅞	8¾	8⅞	12¼	7⅞	14½	15⅞	13¾	19⅝	22¼	17⅜	3½	7	21⅛	19	19⅞	32⅛	13⅛	1¼		½
3	16⅛	13	10½	15⅝	10⅞	10¾	14⅞	9½	17⅛	18¾	17⅛	21⅝	28	20¾	4	8½	26¼	23½	24⅜	37⅞	16⅜	1⅜		½
4	19¼	15	12	18½	13	12⅞	17½	11⅝	20	22⅛	20⅝	29⅛	32¾	24⅛	5	11	31½	27	28⅞	44⅝	19¾	1½		½
5	22⅛	17¾	14	21½	15¼	14¾	20⅛	13⅛	22⅞	25⅝	24	33⅞	38½	28⅛	6½	12	36¾	31⅞	33⅜	51½	23	1 11/16		½
6	25½	20	15½	24⅝	17⅝	17⅛	22¼	15⅛	25⅞	28⅝	27⅝	38⅞	43¼	31⅝	6½	14	42	35½	37⅞	57½	26¼	1 15/16		⅝
6½	28⅝	22¼	17	27¾	19½	19	25⅜	17	29	31⅞	30¾	43⅜	48	35¼	7	16	47¼	39¼	43⅞	64¼	29½	2 3/16		⅝
7	31¾	24½	18½	30¾	21¾	20⅞	28	18⅞	31⅞	34½	34⅛	48⅛	52¾	38½	8	18	52½	43	46⅞	69⅞	32¾	2 3/16		⅝
8	38⅛	29	21½	36⅞	26	24⅝	33¼	22⅜	36⅝	40⅝	40⅞	57¾	62¼	45⅝	10	22	62⅞	50½	55⅞	92¼	39⅜	2 7/16		¾
9	44⅜	34½	25½	43	30⅜	28⅜	38½	26⅝	42⅛	47	47⅜	67½	73¾	53¼	12½	24	73⅜	60	64⅞	95⅜	45⅞	2 11/16		¾
10	50⅝	39	28½	49⅛	34⅝	32⅛	43¾	30⅛	47⅜	52¾	54⅜	76⅝	83¼	59½	13½	28	83¼	67½	73⅞	106⅞	52⅜	2 15/16		⅞
11	56⅞	43½	31½	55¼	39	36⅞	49	33⅝	53⅜	58⅞	61¼	86¼	92¾	65⅞	14	32	94¼	75	82⅞	119¼	58⅞	3 7/16		⅞
12	63⅛	49	36	61⅜	43¾	40⅞	54¼	37⅝	59⅝	65⅞	68	95¼	104¼	73⅝	15½	36	104⅝	85	91⅞	133¼	65½	3 15/16		⅞
13	69⅜	53½	39½	67½	47⅜	43⅞	59½	41⅜	64⅜	70⅝	74¾	105¼	113¾	78⅜	15½	40	115⅛	93	100⅞	142¾	72	3 15/16		⅞
14	75⅝	58	50⅛	73⅝	51⅞	47⅛	64⅜	45⅛	70⅜	76⅝	81¼	114¾	124¼	84⅜	16	42	125½	108⅛	109⅞	155	78½	4½		⅞
15	82	62	53⅞	79¾	56¼	52⅞	70	48⅞	76⅜	82⅞	88¾	121⅜	133¾	90⅞	16	46	136	115⅞	118⅞	167½	85⅛	5		⅞
*16	88¼	67	58⅝	85⅞	60½	56⅛	75¼	52⅝	90¼	99 5/16	95	133⅞	190⅛	107 9/16	16½	48	146⅜	125⅝	127⅞	197 11/16	91⅝	6	1¼	⅞
*17	94½	71	62⅜	92	64⅞	59⅞	80½	56⅝	95	105 5/16	101¾	143⅜	200⅝	111 13/16	19	52	156⅞	133⅜	136⅞	209 13/16	98¼	6	1¼	1

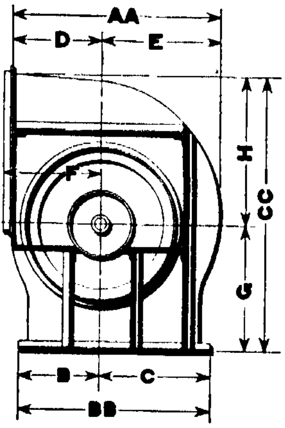
*These sizes differ from others, in that they have independent pedestals.

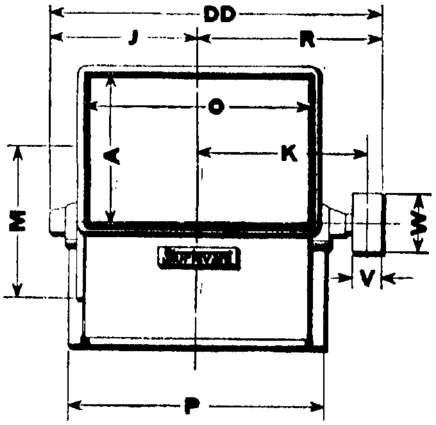
Double Inlet

Multivane Fan—Design 3

Double Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																							Pedestal	Fan
2	13	7	9½	7⅝	10¼	8⅞	10¾	12⅝	14½	15⅞	13⅜	19⅝	22¼	17⅜	3½	7	17⅞	16½	23⅛	32⅜	13⅜	1¼		½
3	16⅛	8¾	11½	9½	12¾	10¾	13	15⅝	17⅛	18¾	17⅛	24⅜	28	20¼	4	8½	22¼	20¼	28⅜	37⅞	16⅝	1⅜		½
4	19¼	10	13	11⅝	15¼	12⅞	15¼	18½	20	22⅛	20⅝	29⅛	32⅞	24⅝	5	11	26⅝	23	33¾	44⅞	19⅝	1½		½
5	22⅜	11¾	15½	13¼	17⅞	14¾	17½	21½	22⅞	25⅜	24	33⅞	38½	28⅝	6½	12	31⅝	27¼	39	51½	23	1 11/16		½
6	25½	13	17½	15⅛	20⅞	17⅛	19¾	24⅝	25⅞	28⅜	27⅜	38⅝	43¼	31⅝	6½	14	35½	30½	44⅜	57½	26⅛	1 15/16		⅝
6½	28⅜	14¼	19½	17	22⅞	19	22	27¾	29	31¾	30¾	43⅜	48	35¼	7	16	39⅞	33⅞	49¾	64¼	29½	2 3/16		⅝
7	31¾	15½	21½	18⅞	25½	20⅞	24¼	30¼	31⅞	34½	34⅛	48⅛	52¼	38½	8	18	44⅜	37	55	69⅞	32¾	2 3/16		⅝
8	38⅛	18½	26¼	22⅝	30½	24⅜	28¾	36⅞	36⅝	40⅞	40⅞	57¾	62¼	45⅝	10	22	53⅛	44¾	65⅝	92¼	39⅞	2 7/16		¾
9	44⅜	22½	30¾	26⅜	35⅝	28⅜	33¼	43	42⅛	47	47⅜	67¼	73¾	53¼	12½	24	62	53¼	76¼	95⅜	45⅞	2 11/16		¾
10	50⅜	25½	34¼	30⅛	40⅝	32⅛	37¾	49⅛	47⅜	52¾	54⅜	76¾	83¼	59½	13½	28	70¾	59¾	86⅞	106⅞	52⅝	2 15/16		⅞
11	56⅞	28½	38	33⅞	45¼	36⅜	42¼	55¼	53⅜	58⅞	61¼	86¼	92¾	65⅞	14	32	79⅝	66½	97½	119¼	58⅞	3 7/16		⅞
12	63⅛	32½	42½	37⅝	50¼	40⅛	46¾	61⅜	59⅜	65⅞	68	95¾	104¼	73⅝	15½	36	88⅜	75	108⅛	133⅛	65½	3 15/16		⅞
13	69⅜	35½	46¼	41⅞	55⅞	43⅞	51¼	67½	64⅞	70⅜	74¾	105¼	113¾	78⅜	15½	40	97¼	81¾	118¾	142¾	72	3 15/16		⅞
14	75⅝	50⅛	50⅛	45⅛	60⅞	47⅝	55¾	73⅜	70⅜	76⅞	81½	114¾	124¾	84⅝	16	42	106	100¼	129⅜	155	78½	4½		⅞
15	82	53⅞	53⅞	48⅞	66	52⅜	60¼	79¾	76⅝	82⅞	88¼	124⅜	133⅞	90⅞	16	46	114⅞	107¾	140	167½	85⅛	5		⅞
*16	88¼	58⅝	58⅝	52⅜	77	56⅛	64¾	85⅞	90¼	99 5/16	95	133⅞	190⅛	107 9/16	16½	48	123⅝	117¼	150⅝	197 13/16	91⅝	6	1¼	⅞
*17	94½	62⅜	62⅜	56⅜	76½	59⅞	69¼	92	95	105 5/16	101¾	143⅜	200⅝	114 13/16	19	52	132½	124¾	161¼	209 13/16	98¼	6	1¼	1

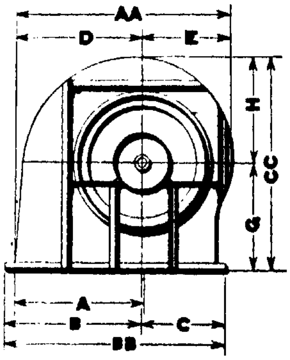
*These sizes differ from others in that they have independent pedestals.

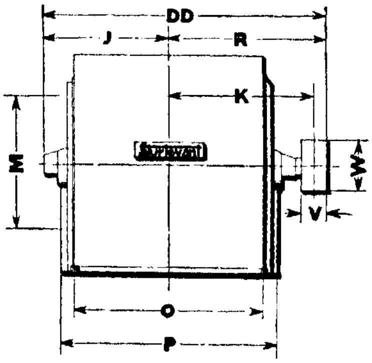
Double Inlet

Multivane Fan—Design 3

Double Width

Full Housing | **Down Blast Discharge** | **Overhung Pulley**





Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																						Pedestal	Fan
2	12½	13⅞	8½	12⅞	8¾	9	10¾	14½	15⅞	13¾	19	22¼	17⅛	3½	7	21⅛	22⅜	19¼	32⅛	13⅛	1¼		½
3	15⅜	17⅜	10½	15⅝	10⅝	11	12¾	17⅛	18¾	17⅛	23¾	28	20¾	4	8½	26¼	27⅞	23¾	37⅞	16⅜	1⅜		½
4	18¾	20½	12	18½	13	13	15¼	20	22⅛	20⅝	28½	32¾	24⅝	5	11	31½	32½	28¼	44⅜	19¾	1½		½
5	21⅞	24	14	21½	15¼	15	17⅜	22⅞	25⅝	24	33¼	38½	28⅛	6⅛	12	36¾	38	32⅞	51½	23	1 11/16		½
6	25	27⅛	15½	24⅝	17⅞	17	23⅜	25⅛	28⅜	27⅜	38	43¼	31⅝	6½	14	42	42⅝	37⅜	57½	26¼	1 15/16		⅝
6½	28⅛	30½	17	27¾	19½	19	22⅞	29	31¾	30¾	42¾	48	35¼	7	16	47¼	47¼	41⅞	64¼	29½	2 3/16		⅝
7	31¼	33¼	18½	30¾	21¾	21	25½	31⅛	34½	34⅛	47½	52¾	38½	8	18	52½	51¾	46½	69⅞	32¾	2 3/16		⅝
8	37¼	39⅞	21½	36⅞	26	25	30½	36⅜	40⅝	40⅞	57	62¼	45⅝	10	22	62⅞	60⅞	55½	92¼	39⅞	2 7/16		¾
9	43¾	46¼	25½	43	30⅜	29	35⅝	42⅛	47	47⅝	66½	73¾	53⅛	12½	24	73⅛	72	64⅝	95⅜	45⅞	2 11/16		¾
10	50	52⅝	28½	49⅛	34⅝	33	40⅞	47⅜	52¾	54⅜	76	83¼	59½	13½	28	83¼	81⅛	73⅝	106⅞	52⅜	2 15/16		⅞
11	56¼	58¾	31½	55¼	39	37	45¼	53⅜	58⅞	61¼	85½	92¾	65⅞	14	32	94¼	90¼	82¾	119¼	58⅞	3 7/16		⅞
12	62½	65⅞	36	61⅜	43¼	41	50¾	59⅜	65⅞	68	95	104¼	73⅝	15½	36	104⅜	101⅞	91¾	133¼	65½	3 15/16		⅞
13	68¾	72	39½	67½	47⅝	45	55⅞	64¼	70⅜	74¾	104½	113¾	78⅛	15½	40	115⅛	111½	100⅞	142⅞	72	3 15/16		⅞
14	75	78⅜	50⅛	73⅜	51⅞	49	60⅞	70⅜	76⅝	81½	114	124¼	84⅝	16	42	125½	128¾	109⅞	155	78½	4½		⅞
15	81¼	81¾	53⅞	79¾	56¼	53	66	76⅝	82⅞	88¼	123½	133¾	90⅞	16	46	136	138⅜	119	167½	85⅛	5		⅞
*16	87½	91⅞	58⅝	85⅞	60½	57	71	90¼	99 9/16	95	133	190⅜	107 9/16	16½	48	146⅜	150½	128	197 13/16	91⅝	6	1¼	⅞
*17	93¾	98	62⅝	92	64⅞	61	76⅛	95	105 9/16	101¾	142½	200⅜	114 13/16	19	52	156⅞	160⅜	137⅛	209 13/16	98¼	6	1¼	1

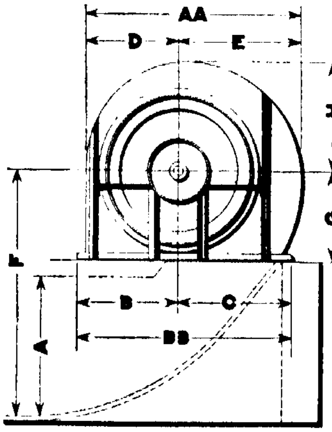
*These sizes differ from others, in that they have independent pedestals.

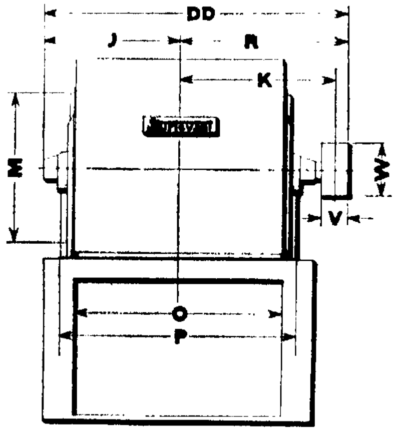
Double Inlet

Multivane Fan—Design 3

Double Width

⅞ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





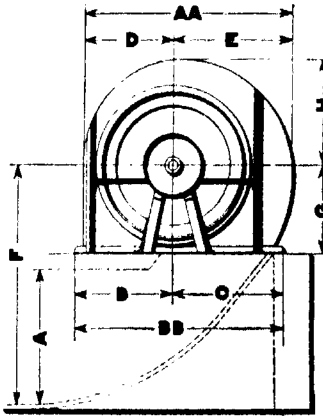
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50	35⅞	39½	32⅜	43⅞	86	32	37⅜	47⅝	52¾	54⅜	76	83½	59⅛	13½	28	76¼	75⅞	69⅜	106⅞	52⅜	2 15/16	⅞
11	56¾	39 15/16	44⅛	36 7/16	49⅜	96	35¾	42⅜	53⅝	58⅞	61¼	85½	92¾	65⅞	14	32	85 11/16	84 1/16	78⅛	119¼	58⅞	3 7/16	⅞
12	62½	44 13/16	49¾	40 7/16	54 13/16	106	39½	47	59⅝	65⅞	68	95	104¼	73⅜	15½	36	95¼	94 11/16	86½	133¼	65½	3 15/16	⅞
13	68¾	49	51¼	44½	60 5/16	116	43¼	51¾	64⅜	70⅝	71¾	104½	113¾	78⅛	15½	40	101 13/16	103¼	95	142¾	72	3 15/16	⅞
14	75	53½	60	48½	65¾	126	47	56⅜	70⅜	76⅝	81½	114	124¼	84⅝	16	42	114¼	113½	103⅜	155	78½	4½	⅞
15	81¼	57 9/16	64½	52 9/16	71¼	136	50¾	61⅛	76⅝	82⅞	88¼	123½	133¾	90⅞	16	46	123 13/16	122 1/16	111⅞	167½	85⅛	5	⅞

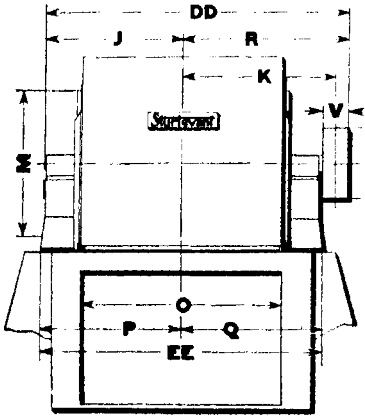
Double Inlet

Multivane Fan—Design 3

Double Width

⅞ Housing **(Ind. Ped's) Bottom Horizontal Discharge** **Overhung Pulley**



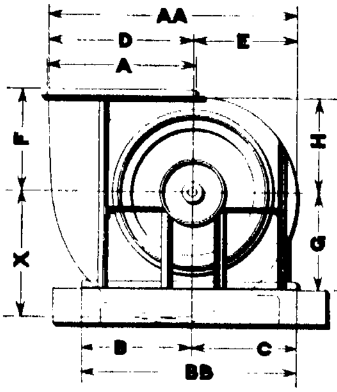


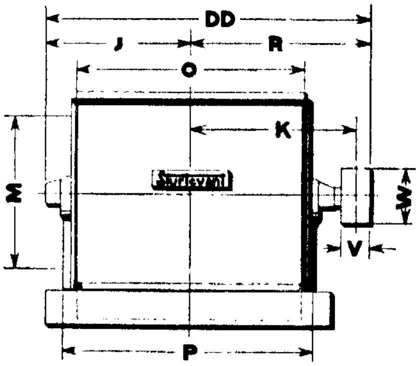
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Ped.	Fan
16	87½	62 9/16	70	56 9/16	76 11/16	146	51½	65¾	90¼	99 5/16	95	133	92 1/16	92 1/16	107 9/16	16½	48	133¼	132 9/16	120¼	197 13/16	184⅛	91⅝	6	1¼	⅞
17	93¼	66⅜	71¼	60⅝	82 3/16	156	58¼	70½	95	105 5/16	101¾	112½	97 13/16	97 13/16	114 13/16	19	52	142 1/16	140⅞	128¾	209 13/16	195⅝	98¼	6	1¼	1
18	100	70⅞	79	61⅞	87⅝	166	62	75⅛	99¾		108⅝	152	103 1/16	103 1/16				152¼	149⅝	137⅛		206⅛	104¾	6	1¼	1
20	112½	78 11/16	88¼	72 11/16	98 9/16	185	68½	84½	115½		122⅛	171	119 9/16	119 9/16				171¼	167 3/16	153		239⅛	118	8	1¼	1
22	125	86¾	98½	80¾	109½	204	75	93⅞	125		135⅝	190	130 1/16	130 1/16				190¼	185¼	168⅞		260⅛	131	8	1¼	1
24	137½	91 11/16	107½	88 13/16	120 3/16	223	81½	103¼	134½		119¼	209	110 9/16	140 9/16				209¾	202 5/16	184¾		281⅛	144	8	1¼	1⅛
26	150	102¼	117½	96⅛	131¾	242	88	112⅝	144		162⅝	228	151 1/16	151 1/16				228¼	220⅜	200⅝		302⅛	157	8	1¼	1⅛

Double Inlet **Double Width**

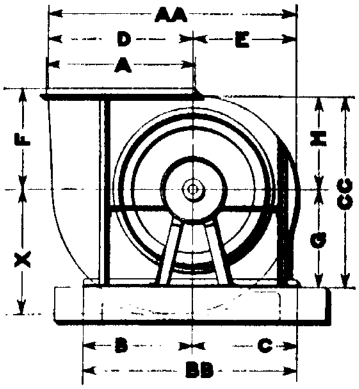
Multivane Fan—Design 3

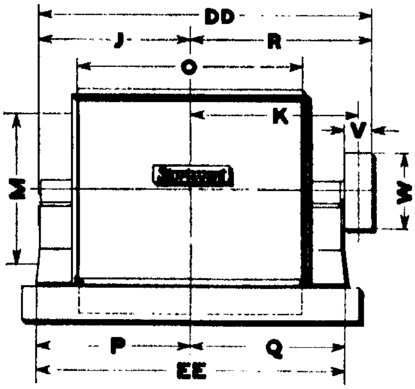
⅞ Housing **Up Blast Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
10	50⅜	36	28½	49⅛	34⅝	32⅛	32	30⅛	47¾	52¼	54⅞	76¼	83¼	59½	13½	28	40⅝	83¾	64½	62⅛	106⅞	52⅞	2 15/16	⅞
11	56⅞	40	31½	55¼	39	36⅜	35¾	33⅞	53¼	58⅞	61¼	86¼	92¾	65⅞	14	32	45¾	94½	71½	69⅝	119¼	58⅞	3 7/16	⅞
12	63⅛	45¼	36	61⅜	43¼	40⅛	39½	37⅝	59⅝	65⅞	68	95¾	104¼	73⅝	15½	36	50¾	104⅝	81¼	77⅛	133¼	65½	3 15/16	⅞
13	69⅛	49½	39½	67½	47⅝	43⅞	43¼	41⅞	64⅜	70⅝	74¾	105¼	113¾	78⅞	15½	40	55⅞	115⅛	89	84⅞	142¾	72	3 15/16	⅞
14	75⅜	55	50⅛	73⅝	51⅞	47⅝	47	45⅛	70⅜	76⅝	81½	114¾	124¼	84⅝	16	42	60⅞	125½	105⅛	92⅛	155	78½	4½	⅞
15	82	59¼	53⅞	79¾	56¼	52⅛	50¾	48⅞	76⅜	82⅞	88¼	124⅜	133¾	90⅞	16	46	66	136	113⅛	99⅝	167½	85⅛	5	⅞





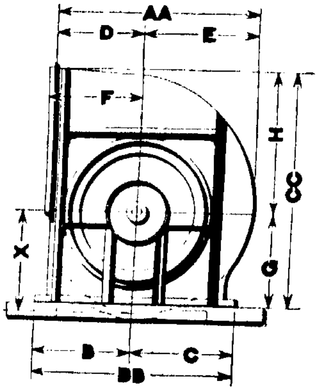
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	Anc. Bolts	
																										Ped.	Fan
16	88¼	61	58⅝	85⅞	60½	56⅛	54½	52⅝	90¼	99 5/16	95	133⅞	92 1/16	92 1/16	107 9/16	16½	48	71	146⅜	122⅞	107⅛	197 13/16	181⅛	91⅜	6	1¼	⅞
17	94½	68	62⅜	92	64⅞	59⅞	58¼	56⅜	95	105 5/16	101¼	143⅜	97 13/16	97 13/16	114 13/16	19	52	76⅛	156⅞	130⅜	111⅝	209 13/16	195⅝	98¼	6	1¼	1
18	100¾	72¼	66⅛	98⅛	69⅛	63⅝	62	60⅛	99¾		108⅝	152⅞	103 1/16	103 1/16				81⅛	167¼	138⅞	122⅛		206⅛	104¾	6	1¼	1
20	113⅜	81	73⅝	110⅛	77¼	71⅞	68½	67⅜	115½		122⅛	172	119 9/16	119 9/16				91¼	188⅛	154⅝	135⅞		239⅛	118	8	1¼	1
22	125⅞	90	81½	122⅝	86⅜	79⅝	75	75⅛	125		135⅝	191	130 1/16	130 1/16				101⅜	209	171½	150⅛		260⅛	131	8	1¼	1
24	138⅜	98½	88⅝	134⅞	95	87⅛	81½	82⅝	134½		149⅜	210	140 9/16	140 9/16				111½	229⅞	187⅛	164⅛		281⅛	144	8	1½	1⅛
26	150⅞	108	96⅛	147⅛	103⅝	94⅝	88	90⅛	144		162⅝	229	151 1/16	151 1/16				121⅝	250¾	204⅛	178⅛		302⅛	157	8	1¼	1⅛

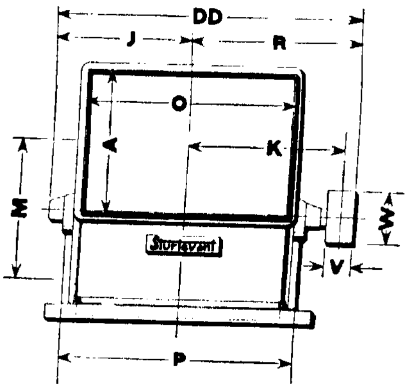
Double Inlet

Multivane Fan—Design 3

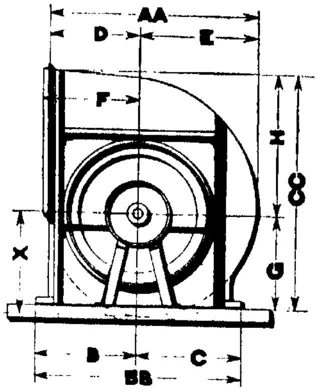
Double Width

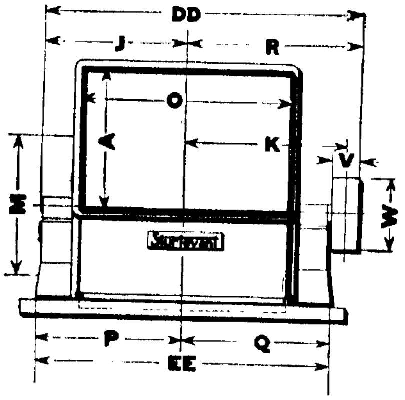
⅞ Housing **Top Horizontal Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts
10	50⅜	25½	31¼	30⅛	40⅝	32⅛	32	49⅛	47⅜	52¾	54⅞	76¾	83¼	59⅛	13½	28	31⅜	70¾	59¼	81⅛	106⅞	52⅜	2 15/16	⅞
11	56⅞	28½	38	33⅞	45¾	36⅜	35¾	55¼	53⅜	58⅞	61¼	86¼	92¾	65⅞	14	32	39	79⅝	66½	91	119¼	58⅞	3 7/16	⅞
12	63⅛	32½	42½	37⅝	50¾	40⅛	39½	61⅜	59⅜	65⅞	68	95¾	101¼	73⅝	15½	36	43¼	88⅜	75	100⅞	133¼	65½	3 15/16	⅞
13	69⅜	35½	46¼	41⅜	55⅞	43⅞	43¼	67½	64⅜	70⅝	74¾	105¼	113¾	78⅜	15½	40	47⅝	97¼	81¾	110¾	142¾	72	3 15/16	⅞
14	75⅝	50⅛	50⅛	45⅛	60⅞	47⅝	47	73⅝	70⅜	76⅝	81½	114¾	121¼	84⅝	16	42	51⅞	106	100¾	120⅝	155	78½	4½	⅞
15	82	53⅞	53⅞	48⅞	66	52⅜	50¾	79¾	76⅝	82⅞	88¼	124¼	133¾	90⅞	16	46	56¼	114⅞	107¾	130½	167	85⅛	5	⅞





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Ex. Wheel Dia.	Shaft Dia.	Anc. Bolts Ped.	Anc. Bolts Fan
16	88¼	58⅜	58⅜	52¾	71	56⅛	54½	85⅞	90¼	99 5/16	95	133⅞	92 1/16	92 1/16	107 9/16	16½	48	60½	123⅜	117¼	140⅜	197 11/16	184⅛	91⅝	6	1¼	⅞
17	91½	62⅜	62⅜	56¼	76⅛	59⅞	58¼	92	95	105 5/16	101¾	143⅜	97 11/16	97 11/16	111 13/16	19	52	64⅞	132½	124¾	150¼	209 13/16	195⅝	98¼	6	1¼	1
18	100¾	66⅛	66⅛	60⅛	81⅛	63⅜	62	98⅛	99¾		108⅝	152⅞	103 1/16	103 1/16				69⅛	141½	132¼	160⅛		206⅛	104¼	6	1¼	1
20	113⅜	73⅜	73⅜	67⅜	91¼	71⅞	68½	110¾	115½		122⅛	172	119 9/16	119 9/16				77¾	158⅝	147¼	178⅞		239⅛	118	8	1¼	1
22	125⅞	81⅛	81⅛	75⅛	101⅜	79⅜	75	122⅝	125		135⅝	191	130 1/16	130 1/16				86¾	176½	162¼	197⅝		260⅛	131	8	1¼	1
24	138⅛	88⅞	88⅞	82⅞	111½	87⅛	81½	134⅞	134½		149⅛	210	140 9/16	140 9/16				95	194¼	177¼	216⅜		281⅛	144	8	1¼	1⅜
26	150⅝	96⅝	96⅝	90⅝	121¾	94⅝	88	147⅛	144		162⅝	229	151 1/16	151 1/16				103⅜	211¾	192¼	235⅛		302⅛	157	8	1¼	1⅛

Single Inlet

No. 2 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
308	1075	.152	147	0.006												
353	1200	.189	650	0.027												
412	1400	.258	870	0.051	23	0.010										
470	1600	.337	1,000	0.08	778	0.058										
529	1800	.426	1,220	0.115	1,140	0.099	188	0.029								
588	2000	.526	1,390	0.160	1,250	0.150	1,020	0.120	53	0.029						
646	2200	.636	1,540	0.220	1,440	0.205	1,270	0.180	991	0.140	18	0.034				
705	2400	.759	1,700	0.285	1,610	0.275	1,480	0.255	1,300	0.220	967	0.165	14	0.047		
765	2600	.889	1,850	0.365	1,770	0.355	1,670	0.335	1,520	0.305	1,340	0.265	956	0.195		
824	2800	1.03			1,940	0.445	1,850	0.435	1,740	0.405	1,600	0.370	1,360	0.315	965	0.245
882	3000	1.19			2,100	0.55	2,020	0.54	1,930	0.52	1,810	0.485	1,660	0.44	1,470	0.39
941	3200	1.35			2,250	0.67	2,190	0.66	2,110	0.65	2,010	0.61	1,900	0.58	1,750	0.54
1000	3400	1.52			2,410	0.81	2,350	0.80	2,280	0.78	2,200	0.77	2,110	0.72	1,990	0.68
1059	3600	1.71			2,560	0.98	2,500	0.95	2,450	0.94	2,380	0.92	2,290	0.88	2,200	0.85
1118	3800	1.90			2,710	1.15	2,660	1.15	2,610	1.10	2,550	1.10	2,480	1.05	2,390	1.05
1177	4000	2.11					2,820	1.30	2,770	1.30	2,710	1.30	2,660	1.25	2,580	1.25
1236	4200	2.32					2,980	1.55	2,920	1.50	2,880	1.50	2,830	1.50	2,760	1.45
1294	4400	2.55					3,130	1.80	3,090	1.75	3,040	1.75	2,990	1.70	2,940	1.70
1353	4600	2.78					3,280	2.05	3,240	2.00	3,200	2.00	3,150	1.95	3,100	1.95
1412	4800	3.03							3,400	2.30	3,360	2.25	3,320	2.25	3,270	2.2
1471	5000	3.29							3,550	2.6	3,520	2.55	3,480	2.55	3,430	2.50
1545	5250	3.63							3,740	3	3,710	3.00	3,670	3.0	3,630	2.95
1618	5500	3.98									3,900	3.45	3,860	3.4	3,820	3.40
1692	5750	4.35									4,090	3.95	4,060	3.9	4,030	3.90
1767	6000	4.74									4,280	4.55	4,200	4.5	4,220	4.45
1840	6250	5.14											4,440	5.1	4,420	5.1
1912	6500	5.56											4,630	5.8	4,600	5.7
1986	6750	5.99													4,800	6.4

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
882	3000	1.19	866	0.235												
941	3200	1.35	1,560	0.47	156	0.145										
1000	3400	1.52	1,840	0.62	1,370	0.47										
1059	3600	1.71	2,080	0.80	1,780	0.68	387	0.235								
1118	3800	1.90	2,300	0.99	2,000	0.87	1,690	0.72	204	0.215						
1177	4000	2.11	2,500	1.20	2,300	1.10	2,040	0.95	1,550	0.73						
1236	4200	2.32	2,690	1.40	2,520	1.30	2,310	1.20	2,000	1.05	589	0.40				
1294	4400	2.55	2,880	1.65	2,720	1.50	2,540	1.45	2,320	1.30	1,900	1.05				
1353	4600	2.78	3,040	1.90	2,920	1.85	2,760	1.75	2,570	1.60	2,350	1.45	368	0.465		
1412	4800	3.03	3,220	2.20	3,100	2.15	2,970	2.05	2,800	1.90	2,600	1.75	1,920	1.30		
1471	5000	3.29	3,390	2.50	3,200	2.45	3,170	2.35	3,020	2.25	2,850	2.15	2,370	1.75	322	0.57
1545	5250	3.63	3,590	2.90	3,510	2.85	3,390	2.80	3,280	2.70	3,120	2.55	2,750	2.20	2,080	1.70
1618	5500	3.98	3,790	3.35	3,710	3.30	3,620	3.25	3,510	3.15	3,380	3.05	3,070	2.75	2,630	2.30
1692	5750	4.35	3,980	3.9	3,920	3.85	3,830	3.80	3,740	3.70	3,620	3.55	3,300	3.30	3,010	2.90
1767	6000	4.74	4,200	4.4	4,120	4.35	4,060	4.35	3,960	4.25	3,860	4.15	3,630	3.85	3,330	3.55
1840	6250	5.14	4,390	5.0	4,330	4.95	4,250	4.9	4,180	4.85	4,090	4.75	3,880	4.5	3,620	4.2
1912	6500	5.56	4,580	5.6	4,500	5.6	4,450	5.5	4,390	5.5	4,300	5.4	4,130	5.2	3,910	4.9
1986	6750	5.99	4,770	6.3	4,720	6.3	4,650	6.2	4,600	6.2	4,530	6.1	4,350	5.9	4,150	5.6
2060	7000	6.45	4,960	7.1	4,910	7.1	4,850	7.0	4,800	6.9	4,730	6.8	4,580	6.7	4,400	6.4
2205	7500	7.40	5,340	8.8	5,300	8.8	5,250	8.7	5,200	8.5	5,140	8.5	5,010	8.4	4,880	8.2
2355	8000	8.41			5,680	10.5	5,640	10.5	5,590	10.5	5,550	10.5	5,430	10.0	5,320	10.0
2500	8500	9.50			6,060	13	6,010	13	5,980	12.5	5,940	12.5	5,830	12.5	5,750	12.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1618	5500	3.98	576	0.83												
1692	5750	4.35	2,470	2.4												
1767	6000	4.74	2,940	3.1	1,490	1.50										
1840	6250	5.14	3,300	3.8	2,850	3.25										
1912	6500	5.56	3,630	4.5	3,280	4.05	515	1.3								
1986	6750	5.99	3,910	5.3	3,620	4.8	2,560	3.4								
2060	7000	6.45	4,190	6.1	3,940	5.7	3,230	4.6	300	1.4						
2205	7500	7.40	4,700	7.9	4,500	7.5	3,980	6.6	3,150	5.2	235	1.65				
2355	8000	8.41	5,170	9.9	5,010	9.6	4,600	8.7	4,070	7.6	3,100	5.8	211	1.9		
2500	8500	9.50	5,610	12.0	5,470	12.0	5,150	11.0	4,710	10.0	4,200	8.9	2,820	6.8	252	2.45
2615	9000	10.67	6,020	14.5	5,930	14.5	5,650	13.5	5,310	13.0	4,890	11.5	4,330	10.0	2,230	5.5
2795	9500	11.89	6,450	17	6,350	17	6,120	16.5	5,840	15.5	4,400	14.5	5,060	13.5	4,530	12.0
2940	10000	13.17	6,860	20	6,780	20	6,580	19.5	6,330	19	6,030	18	5,700	17	5,270	15.5

Single Inlet

No. 3 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
247	1075	.152	230	0.010												
282	1200	.189	1,010	0.043												
329	1400	.258	1,360	0.080	36	0.016										
376	1600	.337	1,650	0.125	1,220	0.091										
424	1800	.426	1,910	0.185	1,620	0.155	294	0.046								
470	2000	.526	2,160	0.250	1,950	0.235	1,590	0.185	82	0.046						
517	2200	.636	2,420	0.355	2,240	0.325	1,980	0.285	1,550	0.220	28	0.56				
565	2400	.759	2,650	0.445	2,510	0.43	2,320	0.395	2,030	0.345	1,510	0.255	22	0.073		
611	2600	.889	2,880	0.57	2,770	0.55	2,610	0.53	2,390	0.48	2,000	0.41	1,490	0.305		
659	2800	1.03			3,030	0.70	2,890	0.68	2,720	0.64	2,490	0.58	2,120	0.49	1,510	0.38
705	3000	1.19			3,280	0.86	3,160	0.84	3,010	0.81	2,830	0.76	2,600	0.69	2,300	0.61
753	3200	1.35			3,520	1.05	3,420	1.05	3,300	1.00	3,140	0.96	2,960	0.90	2,730	0.84
800	3400	1.52			3,760	1.25	3,670	1.25	3,560	1.20	3,430	1.20	3,300	1.15	3,100	1.05
847	3600	1.71			3,990	1.55	3,910	1.50	3,820	1.45	3,720	1.45	3,580	1.40	3,440	1.30
894	3800	1.90			4,240	1.8	4,160	1.75	4,070	1.75	3,980	1.70	3,870	1.65	3,730	1.60
911	4000	2.11					4,400	2.05	4,320	2.00	4,240	2.00	4,150	1.95	4,030	1.90
988	4200	2.32					4,650	2.4	4,560	2.35	4,490	2.35	4,420	2.30	4,310	2.25
1036	4400	2.55					4,880	2.8	4,820	2.75	4,750	2.70	4,660	2.65	4,580	2.65
1082	4600	2.78					5,110	3.2	5,060	3.10	5,000	3.10	4,910	3.05	4,850	3.05
1130	4800	3.03							5,310	3.55	5,240	3.55	5,180	3.50	5,110	3.45
1178	5000	3.29							5,550	4.05	5,490	4.0	5,420	3.95	5,350	3.9
1235	5250	3.63							5,850	4.7	5,800	4.65	5,730	4.65	5,660	4.6
1293	5500	3.98									6,090	5.4	6,020	5.3	5,970	5.3
1353	5750	4.35									6,390	6.2	6,350	6.1	6,290	6.1
1412	6000	4.74									6,690	7.1	6,650	7	6,600	7.0
1171	6250	5.14											6,940	8	6,900	7.9
1530	6500	5.56											7,240	9	7,200	8.9
1589	6750	5.99													7,500	10

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
705	3000	1.19	1,350	0.365												
753	3200	1.35	2,440	0.73	243	0.225										
800	3400	1.52	2,880	0.98	2,140	0.73										
847	3600	1.71	3,240	1.25	2,780	1.05	588	0.365								
894	3800	1.90	3,600	1.55	3,220	1.35	2,640	1.10	318	0.38						
941	4000	2.11	3,900	1.85	3,590	1.70	3,180	1.50	2,420	1.15						
988	4200	2.32	4,200	2.20	3,940	2.05	3,600	1.85	3,130	1.60	919	0.63				
1036	4400	2.55	4,490	2.60	4,250	2.45	3,960	2.25	3,620	2.05	3,050	1.65				
1082	4600	2.78	4,750	3.00	4,550	2.85	4,310	2.70	4,000	2.5	3,670	2.25	575	0.73		
1130	4800	3.03	5,020	3.40	4,840	3.30	4,530	8.20	4,360	3.0	4,050	2.75	3,000	2.05		
1178	5000	3.29	5,290	3.90	5,130	3.80	4,950	3.70	4,700	3.5	4,440	3.30	3,700	2.70	502	0.90
1235	5250	3.63	5,400	4.55	5,470	4.45	5,290	4.35	5,110	4.2	4,870	4.00	4,300	3.45	3,250	2.65
1293	5500	3.98	5,920	5.2	5,800	5.2	5,650	5.1	5,470	4.9	5,280	4.75	4,790	4.25	4,110	3.65
1353	5750	4.35	6,210	6.1	6,110	6.0	5,990	5.9	5,830	5.8	5,650	5.6	5,250	5.1	4,700	4.55
1412	6000	4.74	6,550	6.9	6,430	6.8	6,340	6.8	6,180	6.6	6,020	6.5	5,660	6.1	5,200	5.5
1471	6250	5.14	6,850	7.8	6,760	7.7	6,650	7.7	6,510	7.5	6,370	7.4	6,050	7.1	5,650	6.5
1530	6500	5.56	7,140	8.8	7,030	8.7	6,950	8.6	6,850	8.6	6,710	8.4	6,440	8.1	6,100	7.6
1589	6750	5.99	7,450	9.9	7,370	9.9	7,280	9.7	7,180	9.6	7,060	9.5	6,800	9.2	6,490	8.8
1648	7000	6.45	7,750	11	7,670	11.0	7,580	11.0	7,500	11.0	7,390	10.5	7,150	10.5	6,870	10
1764	7500	7.40	8,350	14	8,270	13.5	8,200	13.5	8,110	13.5	8,020	13.5	7,830	13.0	7,610	13
1882	8000	8.41			8,850	16.5	8,800	16.5	8,740	16.5	8,650	16.0	8,480	16.0	8,310	16
2000	8500	9.50			9,470	20	9,400	20.0	9,340	20.0	9,200	19.5	9,100	19.5	8,960	19

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1293	5500	3.98	900	1.30												
1353	5750	4.35	3,850	3.75												
1412	6000	4.74	4,590	4.8	2,320	2.35										
1471	6250	5.14	5,150	5.9	4,440	5.1										
1530	6500	5.56	5,660	7.0	5,120	6.3	804	2.05								
1589	6750	5.99	6,100	8.2	5,650	7.5	3,990	5.3								
1648	7000	6.45	6,540	9.5	6,140	8.8	5,040	7.2	469	2.2						
1764	7500	7.40	7,340	12.5	7,030	11.5	6,210	10.0	4,920	8.2	367	2.6				
1882	8000	8.41	8,060	15.5	7,820	15.0	7,190	13.5	6,350	12.0	4,840	9.1	330	2.95		
2000	8500	9.50	8,760	19.0	8,550	18.5	8,050	17.5	7,350	16.0	6,560	14.0	4,400	10.5	394	3.85
2120	9000	10.67	9,400	22.5	9,250	22.5	8,820	21.5	8,290	20.0	7,630	18.5	6,750	16	3,480	8.7
2237	9500	11.89	10,100	27	9,910	27	9,560	26	9,100	24.5	8,560	23	7,900	21	7,070	18.5
2352	10000	13.17	10,700	31	10,600	31	10,300	31	9,870	29	9,410	28	8,880	26	8,230	24

Single Inlet

No. 4 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
206	1075	.152	331	0.014												
235	1200	.189	1,460	0.062												
274	1400	.258	1,960	0.115	52	0.023										
314	1600	.337	2,370	0.180	1,750	0.130										
353	1800	.426	2,750	0.265	2,340	0.225	424	0.066								
392	2000	.526	3,120	0.365	2,820	0.335	2,290	0.27	119	0.066						
431	2200	.636	3,470	0.49	3,230	0.465	2,860	0.41	2,230	0.315	41	0.08				
470	2400	.759	3,820	0.64	3,620	0.62	3,340	0.57	2,920	0.495	2,170	0.37	31	0.105		
510	2600	.889	4,150	0.82	3,990	0.79	3,760	0.76	3,450	0.69	3,000	0.59	2,150	0.44		
549	2800	1.03			4,360	1.00	4,160	0.97	3,920	0.92	3,590	0.83	3,060	0.70	2,170	0.55
588	3000	1.19			4,720	1.25	4,550	1.20	4,340	1.15	4,070	1.10	3,740	0.90	3,310	0.87
627	3200	1.35			5,060	1.50	4,920	1.50	4,750	1.45	4,520	1.40	4,260	1.30	3,930	1.20
666	3400	1.52			5,410	1.85	5,290	1.80	5,130	1.75	4,950	1.75	4,750	1.65	4,470	1.55
705	3600	1.71			5,750	2.2	5,630	2.15	5,510	2.10	5,360	2.05	5,150	2.00	4,950	1.90
745	3800	1.90			6,100	2.6	5,900	2.55	5,860	2.50	5,730	2.45	5,570	2.40	5,380	2.30
785	4000	2.11					6,350	2.95	6,230	2.90	6,000	2.90	5,980	2.85	5,800	2.75
824	4200	2.32					6,700	3.45	6,560	3.40	6,470	3.35	6,360	3.30	6,210	3.25
862	4400	2.55					7,020	4.00	6,950	3.95	6,850	3.90	6,710	3.85	6,600	3.80
901	4600	2.78					7,370	4.55	7,280	4.5	7,200	4.45	7,000	4.4	6,980	4.35
941	4800	3.03							7,650	5.1	7,550	5.1	7,460	5.0	7,360	5.0
980	5000	3.29							8,000	5.8	7,900	5.8	7,810	5.7	7,720	5.6
1030	5250	3.63							8,400	6.8	8,350	6.7	8,250	6.7	8,150	6.6
1078	5500	3.98									8,760	7.8	8,670	7.7	8,600	7.6
1128	5750	4.35									9,200	8.9	9,140	8.8	9,070	8.8
1177	6000	4.74									9,630	10	9,580	10.0	9,490	10.0
1225	6250	5.14											9,980	11.5	9,950	11.5
1275	6500	5.56											10,400	13	10,350	13.0
1323	6750	5.99													10,800	14.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
588	3000	1.19	1,950	0.53												
627	3200	1.35	3,510	1.05	350	0.32										
666	3400	1.52	4,150	1.40	3,090	1.05										
705	3600	1.71	4,670	1.80	4,000	1.50	848	.53								
745	3800	1.90	5,180	2.20	4,640	1.95	3,800	1.60	458	0.55						
785	4000	2.11	5,630	2.70	5,170	2.45	4,580	2.15	3,490	1.65						
824	4200	2.32	6,050	3.20	5,670	2.95	5,200	2.70	4,500	2.30	1,820	0.90				
862	4400	2.55	6,470	3.75	6,120	3.55	5,710	3.25	5,210	2.95	4,400	2.40				
901	4600	2.78	6,850	4.30	6,560	4.1	6,210	3.9	5,770	3.6	5,290	3.25	827	1.05		
941	4800	3.03	7,230	4.95	6,980	4.8	6,680	4.6	6,290	4.3	5,840	3.95	4,320	2.95		
980	5000	3.29	7,610	5.6	7,390	5.5	7,120	5.8	6,780	5.1	6,400	4.8	5,320	3.9	723	1.3
1030	5250	3.63	8,070	6.5	7,880	6.4	7,630	6.3	7,360	6.0	7,010	5.7	6,190	5.0	4,680	3.8
1078	5500	3.98	8,530	7.6	8,350	7.5	8,140	7.3	7,880	7.1	7,600	6.9	6,900	6.1	5,920	5.2
1128	5750	4.35	8,050	8.7	8,800	8.6	8,620	8.5	8,400	8.3	8,140	8.0	7,560	7.4	6,770	6.6
1177	6000	4.74	9,440	9.9	9,270	9.8	9,110	9.7	8,900	9.5	8,680	9.3	8,150	8.7	7,480	7.9
1225	6250	5.14	9,870	11.5	9,740	11.0	9,570	11.0	9,390	11.0	9,180	10.5	8,710	10.0	8,140	9.4
1275	6500	5.56	10,300	12.5	10,100	12.5	10,000	12.5	9,870	12.5	9,660	12.0	9,270	11.5	8,790	11.0
1323	6750	5.99	10,700	14.5	10,600	14.0	10,500	14.0	10,300	14.0	10,200	13.5	9,790	13.5	9,350	12.5
1372	7000	6.45	11,200	16	11,100	16.0	10,900	16.0	10,800	15.5	10,600	15.5	10,300	15	9,900	14.5
1471	7500	7.40	12,000	20	11,900	19.5	11,800	19.5	11,700	19.0	11,600	19.0	11,300	19	11,000	18.5
1569	8000	8.41			12,800	24	12,700	23.5	12,600	23.5	12,500	23.5	12,200	23	12,000	23
1668	8500	9.50			13,700	29	13,500	28.5	13,500	28	13,400	28	13,100	28	12,900	28

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. pe sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1078	5500	3.98	1,300	1.85												
1128	5750	4.35	5,550	5.4												
1177	6000	4.74	6,610	6.9	3,340	3.4										
1225	6250	5.14	7,420	8.5	6,400	7.3										
1275	6500	5.56	8,160	10.0	7,390	9.1	1,160	2.95								
1323	6750	5.99	8,790	12.0	8,150	11.0	5,750	7.6								
1372	7000	6.45	9,420	13.5	8,850	12.5	7,250	10.5	675	3.15						
1471	7500	7.40	10,600	17.5	10,100	17.0	8,940	14.5	7,090	11.5	529	3.75				
1569	8000	8.41	11,600	22	11,300	21.5	10,400	19.5	9,160	17.0	6,970	13	475	4.25		
1668	8500	9.50	12,600	27	12,300	26	11,600	25	10,600	22.5	9,460	20	6,350	15	568	5.5
1764	9000	10.67	13,500	32	13,300	32	12,700	31	12,000	29	11,000	26	9,730	23	5,010	12.5
1862	9500	11.89	14,500	39	14,300	38	13,800	37	13,100	35	12,300	33	11,400	30	10,200	27
1960	10000	13.17	15,400	45	15,200	45	14,800	44	14,200	42	13,600	41	12,800	38	11,800	35

Single Inlet

No. 5 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch — Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch — Volume C.F.M.	H. P.
176	1075	.152	451	0.019												
202	1200	.189	1,990	0.084												
235	1400	.258	2,670	0.155	71	0.032										
269	1600	.337	3,240	0.245	2,390	0.180										
302	1800	.426	3,750	0.360	3,190	0.305	578	0.089								
336	2000	.526	4,250	0.495	3,840	0.46	3,120	0.365	162	0.09						
370	2200	.636	4,740	0.67	4,410	0.63	3,900	0.56	3,040	0.43	56	0.11				
404	2400	.759	5,210	0.88	4,930	0.84	4,550	0.78	3,980	0.67	2,960	0.50	42	0.145		
437	2600	.889	5,660	1.1	5,440	1.10	5,130	1.05	4,700	0.91	4,100	0.81	2,940	0.60		
470	2800	1.03			5,940	1.35	5,680	1.35	5,450	1.25	4,900	1.15	4,170	0.96	2,960	0.75
504	3000	1.19			6,440	1.70	6,210	1.65	5,920	1.60	5,560	1.50	5,100	1.35	4,510	1.20
538	3200	1.35			6,900	2.05	6,710	2.00	6,480	2.00	6,170	1.90	5,810	1.75	5,360	1.65
571	3400	1.52			7,390	2.50	7,200	2.45	6,990	2.40	6,750	2.35	6,480	2.20	6,100	2.10
605	3600	1.71			7,840	3.00	7,670	2.90	7,510	2.90	7,310	2.80	7,030	2.70	6,750	2.60
639	3800	1.90			8,320	3.55	8,170	3.45	7,990	3.40	7,820	3.35	7,600	3.25	7,340	3.15
672	4000	2.11					8,650	4.05	8,500	4.00	8,320	3.95	8,150	3.90	7,890	3.80
705	4200	2.32					9,130	4.75	8,950	4.65	8,830	4.6	8,680	4.55	8,470	4.45
740	4400	2.55					9,580	5.5	9,460	5.4	9,340	5.3	9,150	5.2	9,000	5.2
773	4600	2.78					10,100	6.3	9,950	6.1	9,810	6.1	9,660	6.0	9,520	5.9
807	4800	3.03							10,400	7.0	10,300	7.0	10,200	6.9	10,000	6.8
840	5000	3.29							10,900	8.0	10,800	7.9	10,600	7.8	10,500	7.7
882	5250	3.63							11,500	9.3	11,400	9.2	11,300	9.1	11,100	9.0
925	5500	3.98									12,000	10.5	11,800	10.5	11,700	10.5
966	5750	4.35									12,600	12	12,500	12.0	12,400	12.0
1009	6000	4.74									13,150	14	13,050	14.0	13,000	13.5
1050	6250	5.14											13,650	15.5	13,550	15.5
1092	6500	5.56											14,200	17.5	14,100	17.5
1134	6750	5.99													14,700	19.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
504	3000	1.19	2,060	0.72												
538	3200	1.35	4,780	1.45	477	0.435										
571	3400	1.52	5,650	1.90	4,210	1.45										
605	3600	1.71	6,320	2.45	5,460	2.05	1,160	0.72								
639	3800	1.90	7,070	3.05	6,320	2.70	5,190	2.20	624	0.75						
672	4000	2.11	7,670	3.65	7,050	3.35	6,250	2.95	4,750	2.25						
705	4200	2.32	8,250	4.35	7,740	4.05	7,080	3.70	6,150	3.15	1,810	1.25				
740	4400	2.55	8,830	5.1	8,350	4.8	7,790	4.45	7,100	4.05	6,000	3.30				
773	4600	2.78	9,330	5.9	8,950	5.6	8,470	5.8	7,870	4.95	7,200	4.45	1,130	1.45		
807	4800	3.03	9,860	6.7	9,510	6.6	9,100	6.2	8,580	5.9	7,960	5.4	5,900	4.0		
840	5000	3.29	10,400	7.7	10,100	7.5	9,700	7.3	9,250	6.9	8,720	6.5	7,260	5.3	986	1.75
882	5250	3.63	11,000	8.9	10,800	8.8	10,400	8.6	10,000	8.2	9,560	7.8	8,440	6.8	6,390	5.2
925	5500	3.98	11,600	10.5	11,400	10.0	11,100	10.0	10,800	9.7	10,400	9.4	9,410	8.4	8,060	7.1
966	5750	4.35	12,200	12.0	12,000	11.5	11,800	11.5	11,500	11.5	11,100	11.0	10,300	10.0	9,230	8.9
1009	6000	4.74	12,900	13.5	12,700	13.5	12,400	13.5	12,100	13	11,800	12.5	11,100	12.0	10,200	11.0
1050	6250	5.14	13,500	15.5	13,300	15.0	13,100	15.0	12,800	15	12,500	14.5	11,900	14.0	11,100	13.0
1092	6500	5.56	14,000	17.5	13,800	17.0	13,700	17.0	13,500	17	13,200	16.5	12,700	16.0	12,000	15.0
1134	6750	5.99	14,000	19.5	14,500	19.5	14,300	19.0	14,100	19	13,900	18.5	13,300	18.0	12,700	17.5
1177	7000	6.45	15,200	22	15,100	21.5	14,900	21.5	14,700	21	14,500	21	14,000	20.5	13,500	19.5
1260	7500	7.40	16,400	27	16,300	27	16,100	27	15,900	26	15,800	26	15,400	26	15,000	25
1314	8000	8.41			17,400	33	17,300	32	17,200	32	17,000	32	16,700	31	16,300	31
1430	8500	9.50			18,600	40	18,500	39	18,300	39	18,200	38	17,900	38	17,600	38

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. pe sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
925	5500	3.98	1,770	2.55												
966	5750	4.35	7,560	7.3												
1009	6000	4.74	9,020	9.5	4,550	4.6										
1050	6250	5.14	10,100	11.5	8,730	10.0										
1092	6500	5.56	11,100	14.0	10,100	12.5	1,580	4.0								
1134	6750	5.99	12,000	16.0	11,100	15.0	7,850	10.5								
1177	7000	6.45	12,900	18.5	12,100	17.5	9,900	14	920	4.3						
1260	7500	7.40	14,400	24	13,800	23	12,200	20	9,660	16.0	720	5.1				
1344	8000	8.41	15,900	30	15,400	29	14,100	27	12,500	23.5	9,500	18	648	5.8		
1430	8500	9.50	17,200	37	16,800	36	15,800	34	14,500	31	12,900	27	8,650	20.5	774	7.5
1511	9000	10.67	18,500	44	18,200	44	17,300	42	16,300	40	15,000	36	13,300	31	6,830	17
1598	9500	11.89	19,800	52	19,500	52	18,800	50	17,900	48	16,800	45	15,500	41	13,900	37
1680	10000	13.17	21,000	62	20,800	62	20,200	60	19,400	58	18,500	56	17,500	52	16,200	47

Single Inlet

No. 6 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
154	1075	.152	589	0.025												
176	1200	.189	2,600	0.110												
206	1400	.258	3,480	0.205	92	0.042										
235	1600	.337	4,220	0.32	3,110	0.235										
265	1800	.426	4,890	0.47	4,160	0.40	754	0.115								
294	2000	.526	5,540	0.65	5,000	0.60	4,070	0.475	211	0.12						
324	2200	.636	6,170	0.87	5,750	0.83	5,080	0.73	3,970	0.56	73	0.145				
353	2400	.759	6,800	1.15	6,430	1.10	5,940	1.00	5,200	0.88	3,870	0.66	55	0.185		
382	2600	.889	7,390	1.45	7,100	1.40	6,700	1.35	6,140	1.25	5,350	1.05	3,830	0.78		
412	2800	1.03			7,750	1.80	7,400	1.75	6,970	1.65	6,390	1.50	5,450	1.25	3,860	0.98
441	3000	1.19			8,400	2.20	8,100	2.15	7,720	2.05	7,250	1.95	6,640	1.75	5,890	1.55
470	3200	1.35			9,000	2.70	8,760	2.65	8,450	2.60	8,050	2.45	7,590	2.30	7,000	2.15
500	3400	1.52			9,640	3.25	9,400	3.2	9,120	3.10	8,800	3.10	8,450	2.90	7,950	2.70
529	3600	1.71			10,200	3.9	10,000	3.8	9,800	3.75	9,540	3.70	9,170	3.55	8,800	3.40
559	3800	1.90			10,900	4.6	10,700	4.5	10,400	4.4	10,200	4.35	9,910	4.25	9,570	4.15
588	4000	2.11					11,300	5.3	11,100	5.2	10,900	5.2	10,600	5.1	10,300	4.95
618	4200	2.32					11,900	6.2	11,700	6.0	11,500	6.0	11,300	5.9	11,100	5.8
647	4400	2.55					12,500	7.2	12,400	7.0	12,200	6.9	11,900	6.8	11,800	6.7
676	4600	2.78					13,100	8.1	13,000	8.0	12,800	7.9	12,600	7.8	12,400	7.8
706	4800	3.03							13,600	9.1	13,400	9.1	13,300	9.0	13,100	8.9
735	5000	3.29							14,200	10.5	14,100	10.5	13,900	10.0	13,700	10.0
772	5250	3.63							15,000	12	14,900	12	14,700	12.0	14,500	11.5
809	5500	3.98									15,600	14	15,400	13.5	15,300	13.5
846	5750	4.35									16,400	16	16,300	15.5	16,100	15.5
882	6000	4.74									17,100	18	17,000	18.0	16,900	18
919	6250	5.14											17,800	20.5	17,700	20
955	6500	5.56											18,600	23	18,400	23
992	6750	5.99													19,200	26

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
441	3000	1.19	3,460	0.94												
470	3200	1.35	6,250	1.85	620	0.57										
500	3400	1.52	7,370	2.50	5,500	1.85										
529	3600	1.71	8,310	3.20	7,130	2.70	1,510	0.93								
559	3800	1.90	9,220	3.95	8,250	3.50	6,760	2.9	815	0.97						
588	4000	2.11	10,000	4.8	9,200	4.35	8,140	3.8	6,200	2.90						
618	4200	2.32	10,800	5.7	10,100	5.3	9,240	4.8	8,010	4.15	2,360	1.6				
647	4400	2.55	11,500	6.7	10,900	6.3	10,200	5.8	9,260	5.3	7,820	4.3				
676	4600	2.78	12,200	7.7	11,700	7.3	11,100	6.9	10,300	6.4	9,400	5.8	1,470	1.85		
706	4800	3.03	12,900	8.8	12,400	8.5	11,900	8.1	11,200	7.6	10,400	7.0	7,690	5.2		
735	5000	3.29	13,500	10.0	13,200	9.8	12,700	9.5	12,100	9.0	11,400	8.5	9,470	6.9	1,290	2.3
772	5250	3.63	14,400	11.5	14,000	11.5	13,600	11.0	13,100	10.5	12,500	10.0	11,000	8.9	8,340	6.8
809	5500	3.98	15,200	13.5	14,900	13.5	14,500	13.0	14,000	12.5	13,500	12.0	12,300	11.0	10,500	9.3
846	5750	4.35	15,900	15.5	15,700	15.5	15,400	15.0	15,000	15.0	14,500	14.5	13,500	13.0	12,000	11.5
882	6000	4.74	16,800	17.5	16,500	17.5	16,200	17.5	15,800	17.0	15,400	16.5	14,500	15.5	13,300	14.0
919	6250	5.14	17,600	20.0	17,300	20.0	17,000	19.5	16,700	19.5	16,300	19.0	15,500	18.0	14,500	17.0
955	6500	5.56	18,300	22.5	18,000	22.5	17,800	22	17,600	22.0	17,200	21.5	16,500	21.0	15,600	19.5
992	6750	5.99	19,100	25	18,900	25	18,600	25	18,400	24.5	18,100	24.5	17,400	23.5	16,600	22.5
1030	7000	6.45	19,900	28	19,700	28	19,400	28	19,200	28	18,900	27	18,300	27	17,600	28
1103	7500	7.40	21,400	35	21,200	35	21,000	35	20,800	34	20,600	34	20,100	33	19,500	33
1178	8000	8.41			22,700	42	22,600	42	22,400	42	22,200	41	21,700	41	21,300	41
1250	8500	9.50			24,300	52	24,100	50	23,900	50	23,800	50	23,300	50	23,000	49

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
809	5500	3.98	2,300	3.35												
846	5750	4.35	9,860	9.6												
882	6000	4.74	11,800	12.5	5,940	6.0										
919	6250	5.14	13,200	15.0	11,400	13.0										
955	6500	5.56	14,500	18.0	13,100	16.5	2,060	5.2								
992	6750	5.99	15,600	21.0	14,500	19.5	10,200	13.5								
1030	7000	6.45	16,800	24.5	15,700	22.5	12,900	18.5	1,200	5.6						
1103	7500	7.40	18,800	32	18,000	30	15,900	26	12,600	21	940	6.7				
1178	8000	8.41	20,600	40	20,000	38	18,400	35	16,300	30	12,400	23.5	845	7.5		
1250	8500	9.50	22,400	48	21,900	47	20,600	44	18,800	40	16,800	35	11,300	27	1,010	9.8
1324	9000	10.67	24,100	58	23,700	58	22,600	54	21,200	52	19,500	47	17,300	41	8,900	22
1398	9500	11.89	25,800	68	25,400	68	24,500	66	23,300	62	21,900	58	20,200	54	18,100	48
1470	10000	13.17	27,400	80	27,100	80	26,300	78	25,300	76	24,100	72	22,800	68	21,100	62

Single Inlet

No. 6½ Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
137	1075	.152	745	0.032												
157	1200	.189	3,280	0.140												
183	1400	.258	4,400	0.260	117	0.053										
209	1600	.337	5,340	0.405	3,940	0.295										
235	1800	.426	6,180	0.59	5,260	0.50	952	0.15								
262	2000	.526	7,000	0.82	6,330	0.76	5,150	0.60	267	0.15						
288	2200	.636	7,800	1.10	7,260	1.05	6,420	0.92	5,010	0.71	92	0.18				
314	2400	.759	8,590	1.45	8,130	1.40	7,500	1.30	6,570	1.10	4,890	0.83	70	0.235		
340	2600	.889	9,340	1.85	8,960	1.80	8,460	1.70	7,760	1.55	6,760	1.35	4,840	0.98		
366	2800	1.03			9,800	2.25	9,360	2.20	8,820	2.05	8,070	1.85	6,880	1.60	4,880	1.25
392	3000	1.19			10,600	2.80	10,200	2.75	9,760	2.60	9,170	2.45	8,420	2.25	7,450	1.95
418	3200	1.35			11,400	3.40	11,100	3.35	10,700	3.25	10,200	3.10	9,600	2.90	8,840	2.70
444	3400	1.52			12,200	4.10	11,900	4.0	11,500	3.95	11,100	3.90	10,700	3.65	10,100	3.45
470	3600	1.71			12,900	4.95	12,700	4.8	12,400	4.75	12,100	4.65	11,600	4.45	11,100	4.3
496	3800	1.90			13,700	5.8	13,500	5.7	13,200	5.6	12,900	5.5	12,500	5.4	12,100	5.2
523	4000	2.11					14,300	6.7	14,000	6.6	13,700	6.5	13,500	6.4	13,000	6.2
549	4200	2.32					15,100	7.8	14,800	7.6	14,600	7.6	14,300	7.5	14,000	7.3
575	4400	2.55					15,800	9.1	15,600	8.9	15,400	8.8	15,100	8.7	14,900	8.5
601	4600	2.78					16,600	10.5	16,400	10.0	16,200	10.0	15,900	9.9	15,700	9.8
627	4800	3.03							17,200	11.5	17,000	11.5	16,800	11.5	16,600	11.0
654	5000	3.29							18,000	13.0	17,800	13.0	17,600	13.0	17,400	12.5
686	5250	3.63							18,900	15.5	18,800	15.0	18,600	15.0	18,400	15.0
719	5500	3.98									19,700	17.5	19,500	17.0	19,400	17.0
751	5750	4.35									20,700	20	20,600	20.0	20,400	19.5
785	6000	4.74									21,700	23	21,700	22.5	21,400	22.5
816	6250	5.14											22,500	26	22,400	26
850	6500	5.56											23,500	29	23,300	29
882	6750	5.99													24,300	32

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
392	3000	1.19	4,380	1.20												
418	3200	1.35	7,890	2.35	788	0.72										
444	3400	1.52	9,320	3.15	6,950	2.35										
470	3600	1.71	10,500	4.0	9,010	3.4	1,910	1.20								
496	3800	1.90	11,700	5.0	10,400	4.4	8,550	3.60	1,030	1.25						
523	4000	2.11	12,700	6.0	11,600	5.5	10,300	4.85	7,840	3.7						
549	4200	2.32	13,600	7.1	12,800	6.7	11,700	6.1	10,100	5.2	2,980	2.05				
575	4400	2.55	14,600	8.4	13,800	7.9	12,900	7.4	11,700	6.6	9,890	5.4				
601	4600	2.78	15,400	9.7	14,800	9.3	14,000	8.8	13,000	8.1	11,900	7.3	1,860	2.35		
627	4800	3.03	16,300	11.0	15,700	11.0	15,000	10.5	14,100	9.7	13,200	8.9	9,720	6.6		
654	5000	3.29	17,100	12.5	16,600	12.5	16,000	12.0	15,200	11.5	14,400	11.0	12,000	8.8	1,630	2.9
686	5250	3.63	18,200	14.5	17,700	14.5	17,200	14.0	16,600	13.5	15,800	13.0	13,900	11.0	10,500	8.6
719	5500	3.98	19,200	17.0	18,800	17.0	18,800	16.5	17,700	16.0	17,100	15.5	15,500	14.0	13,300	12
751	5750	4.35	20,100	19.5	19,800	19.5	19,400	19	18,900	18.5	18,300	18	17,000	16.5	15,200	15
785	6000	4.74	21,200	22.5	20,900	22	20,500	22	20,000	21.5	19,500	21	18,400	20	16,800	18
816	6250	5.14	22,200	25	21,900	25	21,500	25	21,100	24.5	20,600	24	19,600	23	18,300	21
850	6500	5.56	23,200	29	22,800	28	22,500	28	22,200	28	21,800	27	20,900	26	19,800	25
882	6750	5.99	24,200	32	23,900	32	23,600	32	23,200	31	22,900	31	22,000	30	21,000	29
915	7000	6.45	25,100	36	24,900	36	24,600	35	24,800	35	23,900	35	23,200	34	22,300	32
980	7500	7.40	27,000	45	26,800	44	26,500	44	26,300	43	26,000	43	25,400	42	24,700	41
1047	8000	8.41			28,700	54	28,500	54	28,300	54	28,000	52	27,400	52	27,000	52
1111	8500	9.50			30,700	66	30,400	64	30,200	64	30,000	64	29,500	62	29,000	62

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
719	5500	3.98	2,920	4.2												
751	5750	4.35	12,500	12.0												
785	6000	4.74	14,900	15.5	7,510	7.6										
816	6250	5.14	16,700	19.0	14,400	16.5										
850	6500	5.56	18,400	22.5	16,600	20.5	2,600	6.6								
882	6750	5.99	19,800	27	18,300	24.5	12,900	17.0								
915	7000	6.45	21,200	31	19,900	29	16,300	23.5	1,520	7.1						
980	7500	7.40	23,800	40	22,800	38	20,100	33	15,900	26	1,190	8.5				
1047	8000	8.41	26,200	50	25,300	48	23,300	44	20,600	38	15,700	30	1,070	9.5		
1111	8500	9.50	28,400	62	27,700	60	26,100	56	23,800	52	21,300	45	14,300	34	1,280	12.5
1177	9000	10.67	30,400	74	30,000	72	28,600	68	26,900	66	24,700	60	21,900	52	11,300	28
1242	9500	11.89	32,600	88	32,100	86	31,000	81	29,500	80	27,800	74	25,600	68	22,900	60
1308	10000	13.17	34,700	100	34,300	100	33,300	98	32,000	96	30,500	92	28,800	84	26,600	78

Single Inlet **Single Width**

No. 7 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
124	1075	.152	920	0.039												
141	1200	.189	4,050	0.17												
165	1400	.258	5,440	0.32	144	0.065										
188	1600	.337	6,590	0.50	4,860	0.365										
212	1800	.426	7,630	0.73	6,500	0.62	1,180	0.18								
235	2000	.526	8,650	1.00	7,820	0.93	6,360	0.74	330	0.185						
259	2200	.636	9,640	1.35	8,970	1.30	7,930	1.15	6,190	0.88	113	0.225				
282	2400	.759	10,600	1.80	10,000	1.70	9,270	1.60	8,110	1.40	6,040	1.05	87	0.29		
306	2600	.889	11,500	2.25	11,100	2.20	10,500	2.10	9,580	1.90	8,340	1.65	5,970	1.20		
329	2800	1.03			12,100	2.80	11,600	2.70	10,900	2.55	9,960	2.30	8,500	1.95	6,020	1.50
353	3000	1.19			13,100	3.45	12,600	3.40	12,100	3.20	11,300	3.05	10,400	2.75	9,200	2.45
376	3200	1.35			14,100	4.2	13,700	4.10	13,200	4.05	12,600	3.85	11,800	3.6	10,900	3.35
400	3400	1.52			15,000	5.1	14,700	4.95	14,200	4.85	13,700	4.8	13,200	4.5	12,400	4.25
424	3600	1.71			16,000	6.1	15,600	5.9	15,300	5.9	14,900	5.7	14,300	5.5	13,700	5.3
447	3800	1.90			17,000	7.2	16,600	7.1	16,300	6.9	15,900	6.8	15,500	6.7	14,900	6.4
471	4000	2.11					17,600	8.2	17,300	8.1	16,900	8.0	16,600	7.9	16,100	7.7
494	4200	2.32					18,600	9.6	18,200	9.4	18,000	9.3	17,700	9.2	17,300	9.1
517	4400	2.55					19,500	11.0	19,300	11.0	19,000	11.0	18,600	10.5	18,300	10.5
541	4600	2.78					20,500	12.5	20,200	12.5	20,000	12.5	19,700	12.0	19,400	12.0
565	4800	3.03							21,200	14.5	21,000	14.0	20,700	14.0	20,400	14.0
588	5000	3.29							22,200	16	22,000	16.0	21,700	16.0	21,400	15.5
618	5250	3.63							23,400	19	23,200	18.5	22,900	18.5	22,700	18.5
647	5500	3.98									24,400	21.5	24,100	21.5	23,900	21.0
676	5750	4.35									25,600	25	25,400	24.5	25,200	24.5
706	6000	4.74									26,700	28	26,600	28	26,400	28
735	6250	5.14											27,700	32	27,600	32
765	6500	5.56											29,000	36	28,800	36
794	6750	5.99													30,000	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
353	3000	1.19	5,400	1.45												
376	3200	1.35	9,750	2.90	972	0.80										
400	3400	1.52	11,500	3.90	8,570	2.9										
424	3600	1.71	13,000	4.95	11,100	4.2	2,360	1.45								
447	3800	1.90	14,400	6.2	12,900	5.5	10,600	4.45	1,270	1.50						
471	4000	2.11	15,600	7.5	14,400	6.8	12,700	6.0	9,690	4.55						
494	4200	2.32	16,800	8.8	15,800	8.2	14,400	7.5	12,500	6.5	8,680	2.5				
517	4400	2.55	18,000	10.5	17,000	9.8	15,900	9.1	14,500	8.2	12,200	6.7				
541	4600	2.78	19,000	12.0	18,200	11.5	17,800	11.0	16,000	10.0	14,700	9.1	2,300	2.9		
565	4800	3.03	20,100	13.5	19,400	13.5	18,500	12.5	17,500	12.0	16,200	11.0	12,000	8.1		
588	5000	3.29	21,200	15.5	20,500	15.5	19,600	15.0	18,800	14.0	17,800	13.5	14,800	11.0	2,010	3.6
618	5250	3.63	22,400	18	21,900	18.0	21,200	17.5	20,500	17.0	19,500	16.0	17,200	14.0	13,000	10.5
647	5500	3.98	23,700	21	23,200	20.5	22,600	20.5	21,900	19.5	21,100	19.0	19,200	17.0	16,400	14.5
676	5750	4.35	24,900	24	24,500	24	24,000	23.5	23,300	23	22,600	22.5	21,000	20.5	18,800	18
706	6000	4.74	26,200	28	25,800	27	25,300	27	24,700	26	24,100	26	22,700	24	20,800	22
735	6250	5.14	27,400	31	27,000	31	26,600	31	26,100	30	25,500	30	24,000	28	22,600	26
765	6500	5.56	28,600	35	28,100	35	27,800	35	27,400	34	26,800	34	25,800	32	24,400	31
794	6750	5.99	29,800	40	29,500	39	29,100	39	28,700	39	28,300	38	27,200	37	25,900	35
824	7000	6.45	31,000	44	30,700	44	30,300	44	30,000	43	29,600	43	28,600	42	27,500	40
882	7500	7.40	33,400	56	33,100	54	32,800	54	32,500	54	32,100	54	31,300	52	30,400	50
941	8000	8.41			35,400	66	35,200	66	34,900	66	34,600	64	33,900	64	33,200	64
1000	8500	9.50			37,900	80	37,600	80	37,300	80	37,100	78	36,400	78	35,800	76

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
647	5500	3.98	3,600	5.2												
676	5750	4.35	15,400	15.0												
706	6000	4.74	18,400	19.5	9,270	9.4										
735	6250	5.14	20,600	23.5	17,800	20.5										
765	6500	5.56	22,700	28	20,500	25	3,210	8.2								
794	6750	5.99	24,400	33	22,600	30	16,000	21								
824	7000	6.45	26,200	38	24,600	35	20,200	29	1,880	8.8						
882	7500	7.40	29,400	49	28,100	47	24,800	41	19,700	33	1,470	10.5				
941	8000	8.41	32,300	62	31,300	60	28,700	51	25,400	47	19,400	36	1,320	11.5		
1000	8500	9.50	35,000	76	34,200	74	32,200	68	29,400	64	26,300	56	17,600	42	1,580	15.5
1059	9000	10.67	37,600	90	37,000	90	35,300	86	33,200	80	30,500	74	27,000	64	13,900	35
1118	9500	11.89	40,300	110	39,600	105	38,200	105	36,400	98	34,200	92	31,600	84	28,200	74
1177	10000	13.17	42,900	125	42,300	125	41,000	120	39,500	115	37,600	115	35,500	105	32,900	96

Single Inlet

No. 8 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
103	1075	.152	1,330	0.056												
118	1200	.189	5,840	0.245												
137	1400	.258	7,840	0.46	208	0.094										
157	1600	.337	9,500	0.72	7,000	0.52										
177	1800	.426	11,000	1.05	9,350	0.90	1,700	0.265								
196	2000	.526	12,500	1.45	11,300	1.35	9,160	1.05	475	0.265						
216	2200	.636	13,900	1.95	12,900	1.85	11,400	1.65	8,920	1.25	163	0.32				
235	2400	.759	15,300	2.55	14,500	2.45	13,400	2.30	11,700	2.00	8,700	1.50	125	0.42		
255	2600	.889	16,600	3.25	16,000	3.15	15,100	3.05	13,800	2.75	12,000	2.35	8,610	1.75		
275	2800	1.03			17,500	4.00	16,700	3.90	15,700	3.65	14,400	3.30	12,300	2.80	8,680	2.2
294	3000	1.19			18,900	4.95	18,200	4.85	17,400	4.6	16,300	4.35	15,000	3.95	13,300	3.5
314	3200	1.35			20,300	6.1	19,700	5.9	19,000	5.8	18,100	5.5	17,100	5.2	15,700	4.8
333	3400	1.52			21,700	7.3	21,200	7.2	20,500	7.0	19,800	6.9	19,000	6.5	17,900	6.1
353	3600	1.71			23,000	8.8	22,500	8.5	22,000	8.5	21,400	8.3	20,600	8.0	19,800	7.6
373	3800	1.90			24,400	10.5	24,000	10.0	23,500	9.9	22,900	9.8	22,300	9.6	21,500	9.3
392	4000	2.11					25,400	12.0	25,000	11.5	24,400	11.5	23,900	11.5	23,200	11.0
412	4200	2.32					26,800	14.0	26,300	13.5	25,900	13.5	25,500	13.5	24,900	13.0
431	4400	2.55					28,100	16.0	27,800	16.0	27,400	15.5	26,900	15.5	26,400	15.0
451	4600	2.78					29,500	18.5	29,200	18.0	28,800	18.0	28,400	17.5	27,900	17.5
471	4800	3.03							30,600	20.5	30,200	20.5	29,800	20	29,500	20.0
490	5000	3.29							32,000	23.5	31,600	23	31,200	23	30,900	22.5
515	5250	3.63							33,700	27	33,400	27	33,000	27	32,700	26
540	5500	3.98									35,100	31	34,700	31	34,400	30
564	5750	4.35									36,800	36	36,600	35	36,300	35
589	6000	4.74									38,500	41	38,300	40	38,000	40
613	6250	5.14											40,000	46	39,800	45
637	6500	5.56											41,700	52	41,500	52
662	6750	5.99													43,200	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
294	3000	1.19	7,800	2.1												
314	3200	1.35	14,000	4.2	1,400	1.3										
333	3400	1.52	16,600	5.6	12,400	4.2										
353	3600	1.71	18,700	7.2	16,000	6.1	3,400	2.1								
373	3800	1.90	20,700	8.9	18,600	7.9	15,200	6.4	1,830	2.2						
392	4000	2.11	22,500	11.0	20,700	9.8	18,300	8.6	14,000	6.6						
412	4200	2.32	24,200	12.5	22,700	12.0	20,800	11.0	18,000	9.3	5,300	3.6				
431	4400	2.55	25,900	15.0	24,500	14.0	22,900	13.0	20,900	12.0	17,600	9.6				
451	4600	2.78	27,400	17.0	26,300	16.5	24,900	15.5	23,100	14.5	21,200	13	3,310	4.2		
471	4800	3.03	28,900	19.5	27,900	19	26,700	18.5	25,200	17	23,400	16	17,300	11.5		
490	5000	3.29	30,500	22.5	29,600	22	28,500	21.5	27,100	20	25,600	19	21,300	15.5	2,900	5.2
515	5250	3.63	32,300	26	31,500	26	30,500	25	29,500	24	28,100	23	24,800	20.0	18,700	15
540	5500	3.98	34,200	30	33,400	30	32,600	29	31,500	28	30,400	27	27,600	24.5	23,700	21
564	5750	4.35	35,800	35	35,200	34	34,500	34	33,600	33	32,600	32	30,300	30	27,100	26
589	6000	4.74	37,800	40	37,100	39	36,500	39	35,600	38	34,700	37	32,600	35	30,000	32
613	6250	5.14	39,500	45	39,000	45	38,300	44	37,600	43	36,800	43	34,900	41	32,600	38
637	6500	5.56	41,200	50	40,500	50	40,100	50	39,500	49	38,700	49	37,100	47	35,200	44
662	6750	5.99	43,000	58	42,500	56	41,900	56	41,400	56	40,700	54	39,200	54	37,400	50
686	7000	6.45	44,700	64	44,100	64	43,700	64	43,200	62	42,600	62	41,200	60	39,600	58
735	7500	7.40	48,000	80	47,700	78	47,200	78	46,700	76	46,200	76	45,100	76	43,900	74
785	8000	8.41			51,100	96	50,700	96	50,300	94	49,900	94	48,900	92	48,000	92
834	8500	9.50			54,600	115	54,100	115	53,800	115	53,500	115	52,500	110	51,600	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
540	5500	3.98	5,100	7.5												
564	5750	4.35	22,200	21.5												
589	6000	4.74	26,500	28	13,400	13.5										
613	6250	5.14	29,700	34	25,600	29										
637	6500	5.56	32,700	40	29,500	37	4,630	12								
662	6750	5.99	35,200	47	32,600	43	23,000	31								
686	7000	6.45	37,700	54	35,400	50	29,000	42	2,700	12.5						
735	7500	7.40	42,300	70	40,500	68	35,800	60	28,400	47	2,120	15				
785	8000	8.41	46,500	88	45,000	86	41,400	78	36,600	68	27,900	52	1,900	17		
834	8500	9.50	50,500	110	49,200	105	46,400	100	42,400	90	37,900	80	25,400	60	2,270	22
882	9000	10.67	54,100	130	53,300	130	50,800	125	47,800	115	44,000	105	38,900	92	20,000	50
931	9500	11.89	58,000	155	57,100	155	55,000	150	52,500	140	49,400	130	45,500	120	40,700	110
980	10000	13.17	61,700	180	61,000	180	59,200	175	57,000	170	54,200	160	51,100	150	47,400	140

Single Inlet

No. 9 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
88	1075	.152	1,800	0 077												
101	1200	.189	7,950	0.335												
118	1400	.258	10,700	0.62	283	0 13										
134	1600	.337	12,900	0.98	9,530	0 71										
151	1800	.426	15,000	1.45	12,700	1 20	2,310	0 355								
168	2000	.526	17,000	2 00	15,300	1 85	12,500	1 45	646	0 36						
185	2200	.636	18,900	2 65	17,600	2 55	15,000	2.20	12,200	1.70	222	0 435				
202	2400	.759	20,800	3 50	19,700	3 35	18,200	3 10	15,900	2 70	11,830	2.00	170	0.57		
219	2600	.889	22,600	4.45	21,700	4 3	20,500	4.15	18,800	3.75	16,400	3 25	11,700	2 4		
235	2800	1 03			23,700	5 5	22,700	5.3	21,400	5.0	19,500	4 5	16,700	3.8	11,800	3.00
252	3000	1 19			25,700	6.8	24,800	6 6	23,600	6 3	22,200	5 9	20,400	5 4	18,000	4.75
269	3200	1 35			27,600	8 2	26,800	8 1	25,900	7 9	24,600	7.5	23,200	7 0	21,400	6 6
286	3400	1.52			29,500	9 9	28,800	9 7	27,000	9 5	26,900	9.4	25,800	8 9	24,300	8 3
303	3600	1.71			31,300	12	30,600	11 5	30,000	11 5	29,200	11.5	28,100	11.0	27,000	10.5
319	3800	1 90			33,200	14	32,600	14	31,900	13 5	31,200	13 5	30,300	13.0	20,300	12.5
336	4000	2 11					34,500	16	33,900	16 0	33,200	16.0	32,600	15 5	31,500	15 0
353	4200	2 32					36,500	19	35,700	18.5	35,200	18.5	34,600	18	33,800	18.0
370	4400	2 55					38,300	22	37,800	21.5	37,300	21	36,600	21	35,900	20 5
387	4600	2.78					40,100	25	39,700	24.5	39,200	24	38,600	24	36,000	23.5
404	4800	3 03							41,600	28	41,100	28	40,600	27	40,100	27
420	5000	3.29							43,500	32	43,000	31	42,500	31	42,000	31
441	5250	3.63							45,900	37	45,500	37	44,900	36	44,400	36
462	5500	3 98									47,700	42	47,200	42	46,800	41
483	5750	4 35									50,100	49	49,800	48	49,400	48
505	6000	4 74									52,500	56	52,100	56	51,700	54
525	6250	5.14											54,400	62	54,100	62
546	6500	5.56											56,700	70	56,400	70
567	6750	5 99													58,800	78

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.48 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
252	3000	1 19	10,600	2 85												
269	3200	1 35	19,100	5 7	1,910	1 75										
286	3400	1.52	22,600	7 7	16,800	5 7										
303	3600	1.71	25,400	9 7	21,800	8.3	4,610	2 85								
319	3800	1 90	28,200	12.0	25,200	10.5	20,700	8.81	2,490	3.0						
336	4000	2.11	30,600	14.5	28,200	13 5	24,900	11.5	19,000	8.9						
353	4200	2 32	33,000	17 5	30,900	16.0	28,300	14.5	24,500	12.5	7,200	4 9				
370	4400	2 55	35,200	20 5	33,300	19.0	31,100	18	28,400	16.0	23,900	13.0				
387	4600	2 78	37,200	23.5	35,700	22.5	33,800	21	31,400	19.5	28,800	18.0	4,500	5.7		
404	4800	3.03	39,400	27	38,000	26	36,300	25	34,200	23.5	31,800	21.5	23,500	16		
420	5000	3 29	41,500	31	40,200	30	38,800	29	36,900	28	34,800	26	29,000	21	3,940	7 0
441	5250	3 63	43,900	36	42,900	35	41,600	34	40,100	33	38,100	31	33,700	27	25,500	20.5
462	5500	3 98	46,500	41	45,400	41	44,300	40	42,900	39	41,400	37	37,600	33	32,200	28
483	5750	4 35	48,800	47	48,000	47	47,000	46	45,700	45	44,300	44	41,200	40	36,900	36
505	6000	4.74	51,400	54	50,500	54	49,600	52	48,600	52	47,300	50	44,400	47	40,800	43
525	6250	5 14	53,700	62	53,000	60	52,100	60	51,100	60	50,000	58	47,500	56	44,300	52
546	6500	5 56	56,000	70	55,100	68	54,500	68	53,700	68	52,600	66	50,500	64	47,900	60
567	6750	5 99	58,400	78	57,800	78	57,000	76	56,300	76	55,400	74	53,300	72	50,900	70
589	7000	6 45	60,800	86	60,200	86	59,400	86	58,800	84	57,900	84	56,000	82	53,900	78
631	7500	7 40	65,400	110	64,900	105	64,200	105	63,600	105	62,000	105	61,300	100	59,700	100
672	8000	8 41			69,500	130	69,000	130	68,500	130	67,900	125	66,500	125	65,200	125
715	8500	9 50			74,400	160	73,700	155	73,200	155	72,600	155	71,400	150	70,300	150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
462	5500	3.98	7,050	10												
483	5750	4.35	30,200	29												
505	6000	4.74	36,000	38	18,200	18 5										
525	6250	5.14	40,400	46	34,800	40										
546	6500	5 56	44,400	56	40,200	50	6,300	16								
567	6750	5 99	47,800	64	44,300	60	31,300	42								
589	7000	6.45	51,300	74	48,100	70	39,500	56	3,670	17						
631	7500	7.40	57,500	96	55,100	92	48,700	80	38,600	64	2,880	20 5				
672	8000	8.41	63,300	120	61,300	115	56,400	105	49,800	92	38,000	72	2,580	23		
715	8500	9 50	68,600	150	67,000	145	63,100	135	57,600	125	51,500	110	34,500	82	3,090	30
756	9000	10.67	73,700	175	72,500	175	69,100	165	65,000	160	59,800	145	53,000	125	27,300	68
799	9500	11.89	79,000	210	77,700	210	74,900	200	71,400	190	67,100	180	62,000	165	55,400	145
840	10000	13.17	84,000	245	82,900	245	80,500	240	77,500	230	73,900	220	69,600	205	64,500	190

Single Inlet **Single Width**

No. 10 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
77	1075	.152	2,360	0.01												
88	1200	.189	10,400	0.41												
103	1400	.258	13,900	0.82	370	0.165										
118	1600	.337	16,900	1.30	12,500	0.93										
132	1800	.426	19,600	1.85	16,600	1.6	3,020	0.465								
147	2000	.526	22,200	2.6	20,000	2.4	16,300	1.90	845	0.47						
162	2200	.636	24,700	3.5	23,000	3.3	20,300	2.90	15,900	2.25	290	0.57				
176	2400	.750	27,200	4.6	25,700	4.4	23,800	4.05	20,800	3.5	15,500	2.65	222	0.75		
191	2600	.889	29,600	5.8	28,400	5.6	26,800	5.4	24,600	4.9	21,400	4.2	15,300	3.1		
206	2800	1.03			31,000	7.1	29,600	6.9	27,900	6.5	25,500	5.9	21,800	5.0	15,400	3.9
221	3000	1.19			33,600	8.8	32,400	8.7	30,900	8.2	29,000	7.8	26,600	7.1	23,600	6.2
235	3200	1.35			36,000	11.0	35,000	10.5	33,800	10.5	32,200	9.8	30,400	9.2	28,000	8.6
250	3400	1.52			38,500	13.0	37,600	12.5	36,500	12.5	35,200	12.5	33,800	11.5	31,800	11.0
265	3600	1.71			40,900	15.5	40,000	15.0	39,200	15.0	38,200	14.5	36,700	14.0	35,200	13.5
280	3800	1.90			43,400	18.5	42,600	18.0	41,700	17.5	40,800	17.5	39,600	17.0	38,300	16.5
294	4000	2.11					45,100	21.0	44,300	21	43,400	20.5	42,600	20.0	41,200	19.5
309	4200	2.32					47,600	24.5	46,700	24	46,000	24	45,300	23.5	44,200	23
324	4400	2.55					50,000	29	49,500	28	48,700	28	47,800	27	47,000	27
338	4600	2.78					52,500	33	51,900	32	51,200	32	50,400	31	49,700	31
353	4800	3.03							54,400	37	53,700	36	53,000	36	52,400	36
368	5000	3.29							56,900	42	56,200	41	55,500	41	54,900	40
386	5250	3.63							59,900	48	59,400	48	58,700	48	58,000	47
405	5500	3.98									62,400	56	61,700	54	61,200	54
423	5750	4.35									65,500	64	65,000	62	64,500	62
441	6000	4.74									68,500	72	68,100	72	67,600	72
460	6250	5.14											71,100	82	70,800	80
478	6500	5.56											74,200	92	73,800	92
496	6750	5.99													76,900	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
221	3000	1.19	13,900	3.75												
235	3200	1.35	25,000	7.5	2,490	2.3										
250	3400	1.52	29,500	10.0	22,000	7.5										
265	3600	1.71	33,300	12.5	28,500	11.0	6,040	3.75								
280	3800	1.90	36,900	16.0	33,000	14.0	27,000	11.5	3,260	3.9						
294	4000	2.11	40,000	19.0	36,800	17.5	32,600	15.5	24,800	11.5						
309	4200	2.32	43,100	22.5	40,400	21	37,000	19.0	32,100	16.5	9,410	6.4				
324	4400	2.55	46,000	27	43,500	25	40,600	23.5	37,100	21	31,300	17				
338	4600	2.78	48,700	31	46,700	29	44,200	28	41,000	26	37,600	23	5,890	7.4		
353	4800	3.03	51,500	35	49,600	34	47,500	33	44,700	31	41,500	28	30,800	21		
368	5000	3.29	54,200	40	52,600	39	50,700	38	48,200	36	45,500	34	37,900	28	5,150	9.2
386	5250	3.63	57,400	46	56,000	46	54,200	45	52,400	43	49,900	41	44,000	36	33,300	27
405	5500	3.98	60,700	54	59,400	54	57,900	52	56,000	50	54,100	49	49,100	44	42,100	37
423	5750	4.35	63,700	62	62,700	62	61,400	60	59,700	60	57,900	58	53,800	52	48,100	47
441	6000	4.74	67,100	70	66,000	70	64,800	70	63,400	68	61,700	66	58,000	62	53,300	56
460	6250	5.14	70,200	80	69,300	80	68,100	78	66,700	78	65,300	76	62,000	72	57,900	68
478	6500	5.56	73,200	90	72,000	90	71,800	88	70,200	88	68,800	86	66,000	84	62,500	78
496	6750	5.99	76,400	100	75,600	100	74,500	100	73,500	98	72,400	98	69,600	94	66,500	90
515	7000	6.45	79,500	115	78,700	115	77,700	110	76,800	110	75,700	110	73,200	105	70,500	105
552	7500	7.40	85,500	140	84,800	140	84,000	140	83,100	135	82,100	135	80,200	135	78,000	130
588	8000	8.41			90,900	170	90,300	170	89,500	170	88,700	165	86,900	165	85,200	160
625	8500	9.50			97,100	205	96,300	205	95,600	205	95,000	200	93,300	200	91,900	195

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
405	5500	3.98	9,220	13.5												
423	5750	4.35	39,400	38												
441	6000	4.74	47,000	49	23,800	24										
460	6250	5.14	52,800	60	45,500	52										
478	6500	5.56	58,000	72	52,500	66	8,230	21								
496	6750	5.99	62,500	84	58,000	78	40,900	54								
515	7000	6.45	67,000	98	63,000	90	51,600	74	4,800	22.5						
552	7500	7.40	75,200	125	72,000	120	63,600	105	50,400	84	3,760	27				
588	8000	8.41	82,700	160	80,100	155	73,600	140	65,100	120	49,600	94	3,380	30		
625	8500	9.50	89,600	195	87,500	190	82,500	175	75,400	160	67,300	140	45,100	110	4,040	39
662	9000	10.67	96,300	230	94,800	230	90,300	220	85,000	205	78,100	185	69,200	165	35,600	88
699	9500	11.89	103,000	275	102,000	275	97,900	265	93,300	250	87,700	235	81,000	215	72,400	190
735	10000	13.17	110,000	320	108,000	320	105,000	315	101,000	300	96,500	290	91,000	270	84,300	245

Single Inlet | **Single Width**

No. 11 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
69	1075	.152	2,980	0.125												
78	1200	.189	13,100	0.55												
92	1400	.258	17,600	1.05	467	0.21										
105	1600	.337	21,400	1.60	15,800	1.2										
118	1800	.426	24,700	2.35	21,000	2.0	3,810	0.59								
131	2000	.526	28,100	3.25	25,300	3.0	20,600	2.4	1,070	0.60						
144	2200	.636	31,200	4.4	29,100	4.2	25,700	3.7	20,100	2.85	367	0.72				
157	2400	.759	34,400	5.8	32,600	5.6	30,100	5.2	26,300	4.45	1,960	3.3	280	0.94		
170	2600	.889	37,400	7.4	35,900	7.1	33,900	6.8	31,000	6.2	27,000	5.3	19,400	3.95		
183	2800	1.03			39,200	9.0	37,500	8.8	35,300	8.2	32,300	7.5	27,600	6.3	19,500	4.95
196	3000	1.19			42,500	11.0	41,000	11.0	39,100	10.5	36,700	9.8	33,700	8.9	29,800	7.9
209	3200	1.35			45,500	13.5	44,300	13.5	42,700	13.0	40,700	12.5	38,400	11.5	35,400	11.0
222	3400	1.52			48,700	16.5	47,500	16	46,100	16.0	44,500	15.5	42,700	14.5	40,200	13.5
235	3600	1.71			51,700	20.0	50,600	19	49,600	19.0	48,200	18.5	46,400	18.0	44,500	17
248	3800	1.90			54,900	23.5	53,900	23	52,700	22.5	51,600	22	50,100	21.5	48,400	21
262	4000	2.11					57,100	27	56,100	26	54,900	26	53,800	26	52,100	25
275	4200	2.32					60,200	31	59,100	31	58,200	30	57,200	30	55,900	29
288	4400	2.55					63,300	36	62,500	36	61,500	35	60,400	35	59,400	34
301	4600	2.78					66,400	41	65,600	40	64,800	40	63,800	39	62,800	39
314	4800	3.03							68,800	46	68,000	46	67,100	45	66,300	45
327	5000	3.29							71,900	52	71,100	52	70,300	52	69,500	50
343	5250	3.63							75,800	62	75,100	60	74,300	60	73,500	60
360	5500	3.98									78,900	70	78,000	68	77,400	68
376	5750	4.35									82,800	80	82,300	80	81,600	78
392	6000	4.74									86,700	92	86,100	90	85,500	90
408	6250	5.14											90,000	105	89,500	100
425	6500	5.56											93,900	115	93,300	115
441	6750	5.99													97,200	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
196	3000	1.19	17,500	4.75												
209	3200	1.35	31,600	9.5	3,150	2.9										
222	3400	1.52	37,300	12.5	27,800	9.5										
235	3600	1.71	42,000	16	36,000	13.5	7,640	4.75								
248	3800	1.90	46,600	20	41,700	17.5	34,200	14.5	4,130	4.9						
262	4000	2.11	50,600	24	46,600	22	41,200	19.5	31,400	15						
275	4200	2.32	54,500	29	51,100	27	46,700	24	40,600	21	11,900	8.1				
288	4400	2.55	58,300	34	55,100	32	51,400	29	46,900	27	39,600	21.5				
301	4600	2.78	61,600	39	59,100	37	55,900	35	51,900	33	47,600	29	7,450	9.4		
314	4800	3.03	65,100	44	62,800	43	60,100	41	56,600	39	52,600	36	38,900	26		
327	5000	3.29	68,500	50	66,500	49	64,100	48	61,000	46	57,600	43	47,900	35	6,510	11.5
343	5250	3.63	72,600	58	71,000	58	68,800	56	66,300	54	63,100	52	55,600	45	42,200	34
360	5500	3.98	76,800	68	75,100	68	73,200	66	71,000	64	68,500	62	62,100	56	53,200	47
376	5750	4.35	80,500	78	79,300	78	77,600	76	75,600	74	73,200	72	68,100	66	61,000	60
392	6000	4.74	84,900	90	83,500	88	82,000	88	80,100	86	78,100	84	73,400	78	67,400	72
408	6250	5.14	88,900	100	87,600	100	86,100	100	84,600	98	82,600	96	78,500	92	73,300	84
425	6500	5.56	92,600	115	91,100	115	90,100	110	88,900	110	87,100	110	83,500	105	79,000	100
441	6750	5.99	96,600	130	95,600	130	94,300	125	93,000	125	91,600	125	88,100	120	84,100	115
458	7000	6.45	100,000	145	99,500	145	98,200	140	97,100	140	95,800	140	92,600	135	89,100	130
490	7500	7.40	108,000	180	107,000	175	106,000	175	105,000	175	104,000	170	101,000	170	98,600	165
523	8000	8.41			115,000	215	114,000	215	113,000	210	112,000	210	110,000	205	108,000	205
555	8500	9.50			123,000	260	122,000	260	121,000	255	120,000	255	118,000	250	116,000	250

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
360	5500	3.98	11,700	17												
376	5750	4.35	50,000	48												
392	6000	4.74	59,500	62	30,000	30										
408	6250	5.14	66,800	76	57,600	36										
425	6500	5.56	73,500	90	66,500	82	10,400	27								
441	6750	5.99	79,100	105	73,300	98	51,700	68								
458	7000	6.45	84,900	125	79,600	115	65,300	94	6,080	28						
490	7500	7.40	95,200	160	91,200	150	80,500	135	63,800	105	4,760	34				
523	8000	8.41	105,000	200	101,000	195	93,200	175	82,400	155	62,800	120	4,270	38		
555	8500	9.50	114,000	245	111,000	240	104,000	225	95,400	205	85,100	180	57,100	135	5,110	50
588	9000	10.67	122,000	290	120,000	290	114,000	275	108,000	260	98,800	235	87,500	205	45,100	110
620	9500	11.89	131,000	350	129,000	345	124,000	335	118,000	320	111,000	295	103,000	270	91,600	240
654	10000	13.17	139,000	405	137,000	405	133,000	395	128,000	380	122,000	365	115,000	340	107,000	310

Single Inlet

No. 12 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
62	1075	152	3,680	0.155												
71	1200	.189	16,200	0.68												
82	1400	258	21,800	1.25	576	0.26										
94	1600	337	26,400	2.00	19,400	1.45										
106	1800	426	30,500	2.90	26,000	2.50	4,700	0.73								
118	2000	526	34,600	4.05	31,200	3.75	25,400	2.95	1,320	0.74						
129	2200	636	38,500	5.5	35,900	5.2	31,700	4.55	24,800	3.5	453	0.89				
141	2400	759	42,400	7.1	40,200	6.9	37,100	6.4	32,500	5.5	24,100	4.1	346	1.15		
153	2600	889	46,100	9.1	44,300	8.8	41,800	8.4	38,300	7.7	33,400	6.6	23,900	4.85		
165	2800	1.03			48,400	11.0	46,200	11.0	43,500	10.0	39,800	9.2	34,000	7.8	24,100	6.1
177	3000	1.19			52,400	14.0	50,500	13.5	48,200	13.0	45,300	12.0	41,500	11.0	36,800	9.7
188	3200	1.35			56,200	17.0	54,700	16.5	52,700	16.0	50,300	15.5	47,400	14.5	43,600	13.5
200	3400	1.52			60,100	20.5	58,700	20.0	57,000	19.5	54,900	19.5	52,700	18	49,600	17
212	3600	1.71			63,900	24.5	62,500	23.5	61,100	23.5	59,500	23	57,200	22	55,000	21
224	3800	1.90			67,800	29	66,500	28	65,100	28	63,600	27	61,900	27	58,700	26
235	4000	2.11					70,500	33	69,200	32	67,800	32	66,400	32	64,200	31
247	4200	2.32					74,400	39	72,900	38	71,900	37	70,600	37	69,000	36
259	4400	2.55					78,000	45	77,100	44	76,000	43	74,500	43	73,400	42
271	4600	2.78					81,900	50	81,000	50	80,000	49	78,600	49	77,500	48
282	4800	3.03							85,000	58	83,900	56	82,900	56	81,800	56
294	5000	3.29							88,000	64	87,800	64	86,700	64	85,700	62
309	5250	3.63							93,500	76	92,600	74	91,600	74	90,600	74
324	5500	3.98									97,400	86	96,300	84	95,500	84
338	5750	4.35									102,000	100	101,500	98	101,000	98
353	6000	4.74									107,000	115	106,000	110	105,500	110
368	6250	5.14											111,000	125	110,000	125
382	6500	5.56											116,000	145	115,000	145
397	6750	5.99													120,000	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
177	3000	1.19	21,600	5.9												
188	3200	1.35	39,000	11.5	3,890	3.55										
200	3400	1.52	46,000	15.5	34,300	11.5										
212	3600	1.71	51,900	20.0	44,500	17	9,420	5.8								
224	3800	1.90	57,500	24.5	51,500	22	42,200	18	5,090	6.1						
235	4000	2.11	62,500	30	57,500	27	50,900	24	38,700	18.5						
247	4200	2.32	67,200	35	63,000	33	57,600	30	50,000	26	14,700	10				
259	4400	2.55	71,000	41	68,000	37	63,500	36	57,900	33	48,800	27				
271	4600	2.78	76,000	48	72,900	46	69,000	43	64,000	40	58,700	36	9,190	11.5		
282	4800	3.03	80,400	54	77,500	54	74,100	50	69,900	48	64,900	44	48,000	33		
294	5000	3.29	84,500	62	82,000	62	79,100	60	75,200	56	71,000	54	59,100	43	8,040	14.5
309	5250	3.63	89,600	72	87,500	72	84,700	70	81,800	68	77,900	64	68,700	56	52,000	42
324	5500	3.98	94,700	84	92,600	82	90,500	82	87,500	78	84,500	76	76,600	68	65,700	58
338	5750	4.35	99,500	96	97,900	96	95,800	94	93,300	92	90,400	88	84,100	82	75,200	72
353	6000	4.74	105,000	110	103,000	110	101,000	110	98,800	106	96,500	105	90,500	96	83,100	88
368	6250	5.14	109,500	125	108,000	125	106,000	125	104,000	120	102,000	120	96,800	115	90,400	105
382	6500	5.56	114,000	140	113,000	140	111,000	140	110,000	135	107,000	135	103,000	130	97,600	120
397	6750	5.90	119,000	160	118,000	160	116,000	155	115,000	155	113,000	150	109,000	145	104,000	140
412	7000	6.45	124,000	175	123,000	175	121,000	175	120,000	175	118,000	170	114,000	165	110,000	160
441	7500	7.40	133,000	220	132,000	220	131,000	215	130,000	215	128,000	210	125,000	210	122,000	205
471	8000	8.41			142,000	265	141,000	265	140,000	260	138,000	260	136,000	255	133,000	255
500	8500	9.50			152,000	320	150,000	320	149,000	315	148,000	315	146,000	210	143,000	305

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
324	5500	3.98	14,400	21												
338	5750	4.35	61,600	60												
353	6000	4.74	73,500	76	37,100	37										
308	6250	5.14	82,400	94	71,000	82										
382	6500	5.56	90,600	110	82,000	100	12,800	33								
397	6750	5.99	97,600	130	90,400	120	63,900	84								
412	7000	6.45	105,000	150	98,300	140	80,600	115	7,500	35						
441	7500	7.40	117,000	195	113,000	190	99,400	165	78,600	130	5,870	42				
471	8000	8.41	129,000	245	125,000	240	115,000	215	102,000	190	77,400	145	5,270	47		
500	8500	9.50	140,000	300	137,000	295	129,000	275	118,000	250	105,000	220	70,500	170	6,300	62
530	9000	10.67	150,000	360	148,000	355	141,000	340	133,000	320	122,000	290	108,000	255	55,600	140
559	9500	11.89	161,000	430	159,000	425	153,000	410	146,000	390	137,000	365	126,000	335	113,000	300
588	10000	13.17	172,000	500	169,000	500	164,000	490	158,000	470	151,000	450	142,000	420	132,000	385

Single Inlet

No. 13 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1075	.152	4,400	0.19												
64	1200	.189	19,700	0.83												
75	1400	.258	26,400	1.55	700	0.315										
86	1600	.337	32,000	2.40	23,600	1.75										
96	1800	.426	37,000	3.55	31,000	3.0	5,710	0.88								
107	2000	.526	42,000	4.9	37,900	4.5	30,800	3.6	1,600	0.89						
118	2200	.636	46,800	6.6	43,500	6.3	38,500	5.5	30,000	4.3	550	1.1				
128	2400	.759	51,500	8.7	48,700	8.3	45,000	7.7	39,400	6.7	29,300	5.0	420	1.4		
139	2000	.889	56,000	11	53,700	10.5	50,700	10.0	46,500	9.3	40,500	8.0	29,000	5.9		
150	2800	1.03			58,700	13.5	56,000	13.0	52,900	12.5	48,400	11.0	41,200	9.5	29,200	7.4
160	3000	1.19			63,500	16.5	61,300	16.5	58,500	15.5	55,000	14.5	50,500	13.5	44,600	12.0
171	3200	1.35			68,200	20.5	66,300	20	64,000	19.5	61,000	18.5	57,500	17.5	53,000	16.0
182	3400	1.52			73,000	24.5	71,200	24	69,100	23.5	66,600	23.5	64,000	22	60,300	20.5
193	3600	1.71			77,500	30	75,800	29	74,200	28	72,200	28	69,500	27	66,700	26
203	3800	1.90			82,200	35	80,700	34	79,000	33	77,200	33	75,100	32	72,500	31
214	4000	2.11					85,500	40	84,000	39	82,300	39	80,500	38	78,000	37
225	4200	2.32					90,200	47	88,500	46	87,200	45	85,700	45	83,700	44
236	4400	2.55					94,700	54	93,500	54	92,200	52	90,500	52	89,000	52
246	4600	2.78					99,400	62	98,200	60	97,000	60	95,500	60	94,000	58
257	4800	3.03							103,000	70	102,000	68	101,000	68	99,200	68
268	5000	3.29							108,000	78	107,000	78	105,000	76	104,000	76
281	5250	3.63							113,000	92	112,000	90	111,000	90	110,000	88
294	5500	3.98									118,000	105	117,000	105	116,000	105
308	5750	4.35									124,000	120	123,000	120	122,000	120
321	6000	4.74									130,000	140	129,000	135	128,000	135
334	6250	5.14											135,000	155	134,000	155
348	6500	5.56											141,000	175	140,000	175
361	6750	5.99													146,000	195

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
160	3000	1.19	26,200	7.1												
171	3200	1.35	47,300	14	4,720	4.35										
182	3400	1.52	55,900	19	41,600	14.0										
193	3600	1.71	63,000	24	54,000	20.5	11,400	7.1								
203	3800	1.90	69,900	30	62,500	26	51,300	21.5	6,170	7.4						
214	4000	2.11	75,900	36	69,700	33	61,700	29	47,000	22						
225	4200	2.32	81,500	43	76,500	40	70,000	36	60,700	31	17,800	12				
236	4400	2.55	87,200	50	82,500	48	77,000	44	70,200	40	59,200	33				
246	4600	2.78	92,200	58	88,500	56	83,700	52	77,700	49	71,200	44	11,200	14		
257	4800	3.03	97,500	66	94,000	64	90,000	62	84,700	58	78,700	54	58,200	39		
268	5000	3.29	103,000	76	99,500	74	96,000	72	91,400	68	86,100	64	71,700	52	9,750	17.5
281	5250	3.63	109,000	88	106,000	86	103,000	84	99,300	82	94,500	78	83,400	68	63,100	52
294	5500	3.98	115,000	100	113,000	100	110,000	100	106,000	96	102,000	92	93,000	82	79,700	70
308	5750	4.35	121,000	120	119,000	115	116,000	115	113,000	110	110,000	110	102,000	100	91,200	88
321	6000	4.74	127,000	135	125,000	130	123,000	130	120,000	130	117,000	125	110,000	120	101,000	105
334	6250	5.14	133,000	150	131,000	150	129,000	150	127,000	145	124,000	145	118,000	135	110,000	125
348	6500	5.56	139,000	170	137,000	170	135,000	170	133,000	165	130,000	165	125,000	160	118,000	150
361	6750	5.99	145,000	190	143,000	190	141,000	190	139,000	185	137,000	185	132,000	180	126,000	170
374	7000	6.45	150,000	215	149,000	215	147,000	210	145,000	210	143,000	205	139,000	200	133,000	195
401	7500	7.40	162,000	270	161,000	265	159,000	265	157,000	260	156,000	260	152,000	255	148,000	250
428	8000	8.41			172,000	320	171,000	320	170,000	320	168,000	315	165,000	310	161,000	305
455	8500	9.50			184,000	390	183,000	385	181,000	385	180,000	380	177,000	375	174,000	370

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
294	5500	3.98	17,500	25												
308	5750	4.35	74,700	72												
321	6000	4.74	89,100	94	45,000	45										
334	6250	5.14	100,000	115	86,200	98										
348	6500	5.56	110,000	135	99,500	125	15,600	40								
361	6750	5.99	118,000	160	110,000	145	77,500	105								
374	7000	6.45	127,000	185	119,000	170	97,800	140	9,100	43						
401	7500	7.40	143,000	240	137,000	230	121,000	200	95,500	160	7,120	50				
428	8000	8.41	157,000	300	152,000	290	140,000	265	123,000	230	94,000	175	6,400	56		
455	8500	9.50	170,000	365	166,000	355	156,000	335	143,000	305	128,000	270	85,500	205	7,050	74
481	9000	10.67	183,000	440	180,000	435	171,000	415	161,000	390	148,000	355	131,000	310	67,500	170
508	9500	11.89	196,000	520	192,000	520	185,000	500	177,000	475	166,000	445	153,000	405	137,000	360
535	10000	13.17	208,000	610	205,000	605	199,000	595	192,000	570	183,000	545	173,000	510	160,000	470

Single Inlet **Single Width**

No. 14 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
52	1075	.152	5,300	0.225												
59	1200	.189	23,400	0.99												
69	1400	.258	31,400	1.85	831	0.375										
78	1600	.337	38,000	2.9	28,000	2.1										
88	1800	.426	44,000	4.2	37,400	3.6	6,790	1.05								
98	2000	.526	49,900	5.8	45,000	5.4	36,700	4.3	1,900	1.05						
108	2200	.636	55,500	7.9	51,800	7.5	45,800	6.5	35,700	5.1	654	1.3				
118	2400	.759	61,200	10.5	57,900	9.9	53,500	9.2	46,800	7.9	34,800	5.9	499	1.7		
128	2600	.889	66,500	13	63,900	12.5	60,300	12.0	55,200	11.0	48,100	9.5	34,500	7.0		
137	2800	1.03			69,800	16	66,600	15.5	62,800	14.5	57,500	13.5	49,000	11.5	34,800	8.8
147	3000	1.19			75,500	20	73,000	19.5	69,500	18.5	65,300	17.5	59,900	16.0	53,000	14.0
157	3200	1.35			81,000	24	78,900	24	76,000	23	72,500	22	68,300	20.5	63,000	19.5
167	3400	1.52			86,700	29	84,600	29	82,100	28	79,000	28	76,000	26	71,600	24.5
177	3600	1.71			92,000	35	90,100	34	88,200	34	85,800	33	82,500	32	79,300	31
186	3800	1.90			97,700	42	96,000	41	93,800	40	91,800	39	89,200	38	86,100	37
196	4000	2.11					102,000	48	99,700	47	97,600	46	95,700	45	92,600	44
206	4200	2.32					107,000	56	105,000	54	104,000	54	102,000	54	99,500	52
216	4400	2.55					113,000	64	111,000	64	110,000	62	107,000	62	106,000	60
226	4600	2.78					118,000	74	117,000	72	115,000	72	113,000	70	112,000	70
235	4800	3.03							122,000	82	121,000	82	119,000	80	118,000	80
245	5000	3.29							128,000	94	127,000	92	125,000	92	124,000	90
257	5250	3.63							135,000	110	134,000	110	132,000	105	131,000	105
270	5500	3.98									140,000	125	139,000	125	138,000	120
282	5750	4.35									147,000	145	146,000	140	145,000	140
294	6000	4.74									154,000	165	153,000	160	152,000	160
306	6250	5.14											160,000	185	159,000	180
319	6500	5.56											167,000	205	166,000	205
331	6750	5.99													173,000	230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs. per sq. inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
147	3000	1.19	31,200	8.4												
157	3200	1.35	56,100	17.0	5,600	5.1										
167	3400	1.52	66,400	22.5	49,400	17.0										
177	3600	1.71	74,900	29	64,100	24.5	13,600	8.4								
186	3800	1.90	83,000	36	74,300	31	60,900	26	7,340	8.8						
196	4000	2.11	90,100	43	82,900	39	73,400	34	55,800	26						
206	4200	2.32	96,900	50	90,900	47	83,100	43	72,200	37	21,200	14.5				
216	4400	2.55	104,000	60	98,000	56	91,500	52	83,500	47	70,400	39				
226	4600	2.78	110,000	68	105,000	66	99,500	62	92,400	58	84,600	52	13,300	16.5		
235	4800	3.03	116,000	78	112,000	76	107,000	74	101,000	68	93,500	64	69,200	47		
245	5000	3.29	122,000	90	118,000	88	114,000	80	109,000	82	102,000	76	85,200	62	11,600	20.5
257	5250	3.63	129,000	105	126,000	105	122,000	100	118,000	96	112,000	92	99,000	80	75,000	60
270	5500	3.98	137,000	120	134,000	120	130,000	120	126,000	115	122,000	110	110,000	98	94,700	84
282	5750	4.35	143,000	140	141,000	140	138,000	135	134,000	135	130,000	130	121,000	120	108,000	105
294	6000	4.74	151,000	160	149,000	155	146,000	155	143,000	150	139,000	150	131,000	140	120,000	125
306	6250	5.14	158,000	180	156,000	180	153,000	175	150,000	175	147,000	170	140,000	165	130,000	150
319	6500	5.56	165,000	205	162,000	200	160,000	200	158,000	195	155,000	195	148,000	185	141,000	175
331	6750	5.99	172,000	230	170,000	225	168,000	225	166,000	220	163,000	220	157,000	215	150,000	205
343	7000	6.45	179,000	255	177,000	255	175,000	255	173,000	250	170,000	245	165,000	240	158,000	230
368	7500	7.40	192,000	320	191,000	315	189,000	315	187,000	310	185,000	305	180,000	300	176,000	295
392	8000	8.41			205,000	380	203,000	380	202,000	380	200,000	375	196,000	370	192,000	365
416	8500	9.50			219,000	465	217,000	460	215,000	455	214,000	450	210,000	445	207,000	445

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
270	5500	3.98	20,800	30												
282	5750	4.35	88,800	86												
294	6000	4.74	106,000	110	53,500	54										
306	6250	5.14	119,000	135	102,000	115										
319	6500	5.56	131,000	160	118,000	145	18,500	47								
331	6750	5.99	141,000	190	130,000	175	92,000	120								
343	7000	6.45	151,000	220	142,000	205	116,000	165	10,800	50						
368	7500	7.40	169,000	285	162,000	270	143,000	235	113,000	190	8,460	60				
392	8000	8.41	186,000	355	180,000	345	166,000	310	146,000	275	112,000	210	7,600	68		
416	8500	9.50	202,000	435	197,000	425	186,000	400	170,000	365	151,000	320	102,000	245	9,090	88
441	9000	10.67	217,000	520	214,000	515	203,000	490	191,000	465	176,000	420	156,000	370	80,100	206
465	9500	11.89	232,000	620	228,000	615	220,000	590	210,000	565	197,000	530	182,000	485	163,000	430
490	10000	13.17	247,000	725	244,000	720	237,000	705	228,000	675	217,000	650	205,000	605	190,000	555

Single Inlet

No. 15 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
48	1075	152	6,200	0.265												
54	1200	189	27,400	1.15												
63	1400	258	36,700	2.15	974	0.44										
72	1600	337	44,500	3.40	32,800	2.45										
81	1800	426	51,500	4.95	44,000	4.2	7,950	1.25								
91	2000	526	58,500	6.8	52,800	6.3	43,000	5.0	2,230	1.25						
99	2200	636	65,100	9.2	60,600	8.7	53,600	7.7	41,800	5.9	765	1.5				
109	2400	759	71,700	12.0	67,900	11.5	62,600	10.5	54,800	9.3	40,800	6.9	585	1.95		
118	2600	889	78,000	15.5	74,800	15.0	70,600	14.0	64,700	13	56,400	11.0	40,400	8.2		
127	2800	1.03			81,800	19.0	78,100	18.5	73,500	17	67,400	15.5	57,500	13.0	40,700	10.5
136	3000	1.19			88,500	23.5	85,500	23	81,400	22	76,500	20.5	70,200	18.5	62,000	16.5
145	3200	1.35			95,000	28	92,400	28	89,000	27	84,900	26	80,000	24.5	73,700	22.5
154	3400	1.52			102,000	34	99,100	34	96,200	33	92,700	33	89,100	31	83,900	29
163	3600	1.71			108,000	41	106,000	40	103,000	40	101,000	39	96,800	37	92,000	36
172	3800	1.90			114,000	49	112,000	48	110,000	47	108,000	46	105,000	45	101,000	43
181	4000	2.11					119,000	56	117,000	54	115,000	54	112,000	54	109,000	52
190	4200	2.32					126,000	66	123,000	64	121,000	64	119,000	62	117,000	62
199	4400	2.55					132,000	76	130,000	74	128,000	74	126,000	72	124,000	70
208	4600	2.78					138,000	86	137,000	84	135,000	84	133,000	82	131,000	82
217	4800	3.03							144,000	96	142,000	96	140,000	94	138,000	94
226	5000	3.29							150,000	110	148,000	110	147,000	105	145,000	105
238	5250	3.63							158,000	130	157,000	125	155,000	125	153,000	125
249	5500	3.98									165,000	145	163,000	145	161,000	145
260	5750	4.35									173,000	170	171,000	165	170,000	165
272	6000	4.74									181,000	190	180,000	190	178,000	190
283	6250	5.14											188,000	215	187,000	215
294	6500	5.56											196,000	245	194,000	240
305	6750	5.99													203,000	270

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
136	3000	1.19	36,500	9.9												
145	3200	1.35	65,800	20	6,060	6.0										
154	3400	1.52	77,700	26	57,900	19.5										
163	3600	1.71	87,600	34	75,100	28	15,900	9.9								
172	3800	1.90	97,200	42	87,000	37	71,300	30	8,600	10.5						
181	4000	2.11	106,000	50	97,100	46	85,900	40	65,400	31						
190	4200	2.32	114,000	60	106,000	56	97,400	50	84,500	44	24,800	17				
199	4400	2.55	121,000	70	115,000	66	107,000	62	97,700	56	82,500	45				
208	4600	2.78	128,000	80	123,000	78	117,000	74	108,000	68	99,200	62	15,500	19.5		
217	4800	3.03	136,000	92	131,000	90	125,000	86	118,000	80	110,000	74	81,000	54		
226	5000	3.29	143,000	105	139,000	105	134,000	100	127,000	94	120,000	90	99,900	74	13,600	24
238	5250	3.63	151,000	125	148,000	120	143,000	120	138,000	115	182,000	110	116,000	94	87,900	72
249	5500	3.98	160,000	140	157,000	140	153,000	140	148,000	135	143,000	130	129,000	115	111,000	98
260	5750	4.35	168,000	165	165,000	160	162,000	160	158,000	155	153,000	150	142,000	140	127,000	125
272	6000	4.74	177,000	185	174,000	185	171,000	185	167,000	180	163,000	175	153,000	165	140,000	150
283	6250	5.14	185,000	210	183,000	210	180,000	205	176,000	205	172,000	200	164,000	190	153,000	175
294	6500	5.56	193,000	240	190,000	235	188,000	235	185,000	230	181,000	230	174,000	220	165,000	205
305	6750	5.99	201,000	270	190,000	265	197,000	265	194,000	260	191,000	255	184,000	250	175,000	240
317	7000	6.45	209,000	300	207,000	300	205,000	295	203,000	290	200,000	290	193,000	280	186,000	270
340	7500	7.40	225,000	370	224,000	370	211,000	365	219,000	360	217,000	360	212,000	355	206,000	345
362	8000	8.41			210,000	450	238,000	445	236,000	445	234,000	435	229,000	430	225,000	425
384	8500	9.50			250,000	545	254,000	540	252,000	535	250,000	530	246,000	525	242,000	520

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
249	5500	3.98	24,300	35												
260	5750	4.35	104,000	100												
272	6000	4.74	124,000	130	62,600	64										
283	6250	5.14	139,000	160	120,000	135										
294	6500	5.56	153,000	190	139,000	170	21,700	56								
305	6750	5.99	165,000	220	153,000	205	108,000	145								
317	7000	6.45	177,000	260	166,000	240	136,000	195	12,700	60						
340	7500	7.40	198,000	330	190,000	315	168,000	275	133,000	220	9,910	70				
362	8000	8.41	218,000	415	211,000	405	194,000	365	172,000	320	131,000	245	8,900	80		
384	8500	9.50	237,000	510	231,000	495	218,000	465	199,000	425	177,000	375	119,000	285	10,600	105
407	9000	10.67	254,000	610	250,000	605	238,000	575	224,000	545	206,000	495	183,000	430	94,000	235
430	9500	11.89	272,000	725	268,000	720	258,000	695	246,000	660	231,000	620	214,000	565	191,000	505
452	10000	13.17	290,000	845	286,000	845	278,000	825	267,000	795	254,000	760	240,000	710	222,000	650

Single Inlet **Single Width**

No. 16 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
41	1075	152	7,200	0.305												
50	1200	189	31,800	1.35												
59	1400	258	42,600	2.5	1,130	0.51										
67	1600	337	51,600	3.9	38,100	2.85										
76	1800	426	59,900	5.7	51,000	1.85	9,220	1.45								
84	2000	526	67,800	7.9	61,200	7.3	49,800	5.8	2,590	1.45						
93	2200	636	75,500	10.5	70,400	10.0	62,200	8.9	48,500	6.9	899	1.75				
101	2400	759	83,100	14	78,700	13.5	72,700	12.5	63,500	11	47,300	8.0	678	2.3		
109	2600	889	90,400	18	86,800	17.5	82,000	16.5	75,000	15	65,400	13.0	46,800	9.5		
118	2800	1.03			94,800	22	90,600	21	85,400	20	78,100	18.0	66,600	15.5	47,200	12
126	3000	1.19			103,000	27	99,100	27	94,500	25	88,700	23.5	81,500	21.5	72,000	19
134	3200	1.35			110,000	33	107,000	32	103,000	32	98,500	30	93,000	28	85,600	26
143	3400	1.52			118,000	40	115,000	39	112,000	38	108,000	38	103,000	35	97,300	33
151	3600	1.71			125,000	48	123,000	46	120,004	46	117,000	45	112,000	43	108,000	42
160	3800	1.90			133,000	56	130,000	56	127,000	54	125,000	54	121,000	52	117,000	50
168	4000	2.11					138,000	64	136,000	64	133,000	64	130,000	62	127,000	60
176	4200	2.32					146,000	76	143,000	74	141,000	74	139,000	72	135,000	72
185	4400	2.55					153,000	88	151,000	86	149,000	84	146,000	84	144,000	82
193	4600	2.78					161,000	100	159,000	98	157,000	96	154,000	96	152,000	94
202	4800	3.03							166,000	110	164,000	110	162,000	110	160,000	110
210	5000	3.29							174,000	125	172,000	125	170,000	125	168,000	125
220	5250	3.63							183,000	150	182,000	145	180,000	145	178,000	145
231	5500	3.98									191,000	170	189,000	165	187,000	165
242	5750	4.35									200,000	195	199,000	190	197,000	190
252	6000	4.74									210,000	220	208,000	220	207,000	220
263	6250	5.14											218,000	250	217,000	245
273	6500	5.56											227,000	280	226,000	280
284	6750	5.99													235,000	315

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
126	3000	1.19	42,400	11.5												
134	3200	1.35	76,300	23	7,620	7										
143	3400	1.52	90,100	31	67,200	23										
151	3600	1.71	102,000	39	87,200	33	18,500	11.5								
160	3800	1.90	113,000	48	101,000	43	82,800	35	9,080	12						
168	4000	2.11	123,000	58	113,000	54	99,600	48	75,900	36						
176	4200	2.32	132,000	70	124,000	64	113,000	58	98,100	50	28,800	19.5				
185	4400	2.55	141,000	82	133,000	76	124,000	72	113,000	64	95,700	52				
193	4600	2.78	149,000	94	143,000	90	135,000	84	126,000	78	115,000	72	18,000	23		
202	4800	3.03	157,000	105	152,000	105	145,000	100	137,000	94	127,000	86	94,100	64		
210	5000	3.29	166,000	125	161,000	120	155,000	115	148,000	110	139,000	105	116,000	84	15,800	28
220	5250	3.63	176,000	140	173,000	140	166,000	135	160,000	130	153,000	125	135,000	110	102,000	82
231	5500	3.98	186,000	165	182,000	165	177,000	160	172,000	155	166,000	150	150,000	135	129,000	115
242	5750	4.35	195,000	190	192,000	185	188,000	185	183,000	180	177,000	175	165,000	160	117,000	145
252	6000	4.74	205,000	215	202,000	215	198,000	210	194,000	205	189,000	205	178,000	190	163,000	175
263	6250	5.14	215,000	245	212,000	240	208,000	246	204,000	235	200,000	230	190,000	220	177,000	205
273	6500	5.56	224,000	275	220,000	275	218,000	270	215,000	270	210,000	265	202,000	255	191,000	240
284	6750	5.99	233,000	310	231,000	310	228,000	305	225,000	300	221,000	300	213,000	290	203,000	275
294	7000	6.45	243,000	350	241,000	345	238,000	346	235,000	340	232,000	335	224,000	325	215,000	315
315	7500	7.40	261,000	430	259,000	430	257,000	430	254,000	420	251,000	415	246,000	410	239,000	400
336	8000	8.41			278,000	520	276,000	515	274,000	515	271,000	505	266,000	500	261,000	495
357	8500	9.50			297,000	640	295,000	625	293,000	620	291,000	615	286,000	610	281,000	600

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
231	5500	3.98	28,200	41												
242	5750	4.35	121,000	115												
252	6000	4.74	144,000	150	7,270	74										
263	6250	5.14	162,000	185	139,000	160										
273	6500	5.56	178,000	220	161,000	200	25,200	64								
284	6750	5.99	191,000	255	177,000	235	125,000	165								
294	7000	6.45	205,000	300	193,000	275	158,000	225	14,700	68						
315	7500	7.40	230,000	385	221,000	370	195,000	320	154,000	255	11,500	82				
336	8000	8.41	253,000	485	245,000	470	225,000	425	199,000	370	152,000	285	10,300	92		
357	8500	9.50	275,000	590	268,000	575	252,000	540	231,000	495	206,000	435	138,000	330	12,400	120
378	9000	10.67	295,000	710	290,000	700	276,000	665	260,000	630	239,000	575	212,000	500	109,000	270
397	9500	11.89	316,000	845	311,000	835	300,000	805	286,000	770	268,000	720	248,000	655	222,000	585
420	10000	13.17	336,000	985	332,000	980	322,000	960	310,000	920	295,000	880	279,000	820	258,000	755

Single Inlet **Single Width**

No. 17 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
41	1075	.152	8,280	0.355												
47	1200	.189	36,500	1.55												
55	1400	.258	49,000	2.85	1,300	0.59										
63	1600	.337	59,400	4.5	43,800	3.25										
71	1800	.426	68,700	6.6	58,500	5.6	10,600	1.65								
78	2000	.526	78,000	9.1	70,400	8.4	57,200	6.7	2,970	1.65						
86	2200	.636	86,900	12.5	80,900	11.5	71,500	10.0	55,700	7.9	1,020	2.0				
94	2400	.759	95,500	16.0	90,500	15.5	83,500	14.5	73,000	12.5	54,400	9.2	780	2.6		
102	2600	.889	104,000	20.5	99,700	20	94,100	19.0	86,300	17.5	75,100	15	53,800	11.0		
110	2800	1.03			109,000	25	104,000	24.5	98,000	23	89,700	21	76,500	17.5	54,300	13.5
118	3000	1.19			118,000	31	114,000	30	109,000	29	102,000	27	93,500	25	82,800	22
126	3200	1.35			127,000	38	123,000	37	119,000	36	113,000	35	107,000	32	98,400	30
133	3400	1.52			135,000	46	132,000	45	128,000	44	124,000	43	119,000	41	112,000	38
141	3600	1.71			144,000	56	141,000	54	138,000	52	134,000	52	129,000	50	124,000	48
149	3800	1.90			153,000	64	150,000	64	147,000	62	143,000	62	139,000	60	135,000	58
157	4000	2.11					154,000	74	156,000	72	153,000	72	150,000	72	145,000	70
165	4200	2.32					167,000	86	164,000	84	162,000	84	159,000	84	155,000	82
173	4400	2.55					176,000	100	174,000	98	171,000	98	168,000	96	165,000	94
181	4600	2.78					184,000	115	182,000	115	180,000	110	177,000	110	175,000	110
188	4800	3.03							191,000	130	189,000	130	187,000	125	184,000	125
196	5000	3.29							200,000	145	198,000	145	195,000	145	193,000	140
206	5250	3.63							210,000	170	209,000	170	206,000	165	204,000	165
216	5500	3.98									219,000	195	217,000	190	215,000	190
226	5750	4.35									230,000	225	229,000	220	227,000	220
235	6000	4.74									241,000	255	240,000	255	238,000	250
245	6250	5.14											250,000	285	249,000	285
255	6500	5.56											261,000	325	259,000	320
265	6750	5.99													275,000	360

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
118	3000	1.19	48,700	13												
126	3200	1.35	87,800	26	8,750	8										
133	3400	1.52	104,000	35	77,300	26										
141	3600	1.71	117,000	45	100,000	38	21,200	13								
149	3800	1.90	130,000	56	116,000	49	95,000	40	11,500	13.5						
157	4000	2.11	141,000	68	129,000	62	115,000	54	87,100	41						
165	4200	2.32	151,000	80	142,000	74	130,000	68	113,000	56	33,100	22.5				
173	4400	2.55	162,000	94	153,000	88	143,000	82	130,000	74	110,000	60				
181	4600	2.78	171,000	110	164,000	105	155,000	98	144,000	90	132,000	82	20,700	26		
188	4800	3.03	181,000	125	174,000	120	167,000	115	157,000	105	146,000	98	108,000	74		
196	5000	3.29	190,000	140	185,000	140	178,000	135	170,000	125	160,000	120	133,000	98	18,100	32
206	5250	3.63	202,000	165	197,000	160	191,000	155	184,000	150	175,000	145	155,000	125	117,000	96
216	5500	3.98	213,000	190	209,000	185	204,000	185	197,000	175	190,000	170	173,000	155	148,000	130
226	5750	4.35	224,000	220	220,000	215	216,000	210	210,000	210	204,000	200	189,000	185	169,000	165
235	6000	4.74	236,000	250	232,000	245	228,000	245	223,000	240	217,000	235	204,000	220	187,000	200
245	6250	5.14	247,000	280	244,000	280	240,000	275	235,000	270	230,000	265	218,000	255	203,000	235
255	6500	5.56	258,000	320	254,000	315	251,000	310	247,000	310	242,000	305	232,000	290	220,000	275
265	6750	5.99	269,000	355	266,000	355	262,000	350	259,000	345	254,000	345	245,000	330	234,000	315
274	7000	6.45	279,000	400	277,000	395	273,000	395	270,000	390	266,000	385	257,000	375	248,000	360
294	7500	7.40	301,000	445	298,000	495	295,000	490	292,000	480	289,000	480	282,000	470	274,000	460
314	8000	8.41			320,000	595	317,000	595	314,000	590	312,000	580	305,000	575	299,000	570
333	8500	9.50			342,000	725	339,000	715	336,000	710	334,000	705	328,000	700	323,000	690

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
216	5500	3.98	32,400	47												
226	5750	4.35	139,000	135												
235	6000	4.74	165,000	175	83,500	84										
245	6250	5.14	186,000	210	160,000	185										
255	6500	5.56	204,000	255	185,000	230	28,900	74								
265	6750	5.99	220,000	295	203,000	270	144,000	190								
274	7000	6.45	236,000	345	221,000	320	182,000	260	16,900	80						
294	7500	7.40	264,000	440	253,000	420	224,000	370	177,000	295	13,200	94				
314	8000	8.41	291,000	555	282,000	535	259,000	490	229,000	425	174,000	330	11,900	105		
333	8500	9.50	315,000	680	308,000	660	290,000	620	265,000	570	236,000	500	159,000	380	14,200	140
353	9000	10.67	339,000	810	333,000	805	318,000	765	299,000	725	275,000	660	243,000	575	125,000	310
372	9500	11.89	363,000	970	357,000	960	344,000	925	328,000	880	308,000	825	285,000	755	255,000	675
392	10000	13.17	386,000	1130	381,000	1120	370,000	1100	356,000	1000	339,000	1010	320,000	945	296,000	870

Single Inlet

No. 18 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
39	1075	152	9,420	0.4												
44	1200	189	41,500	1.75												
52	1400	258	55,700	3.25	1,480	0.67										
59	1600	337	67,500	5.1	49,800	3.7										
66	1800	126	78,200	7.5	66,500	6.4	12,100	1.85								
74	2000	526	88,600	10.5	80,000	9.5	65,100	7.6	3,380	1.9						
81	2200	636	98,700	14.0	91,900	13.0	81,300	11.5	63,500	9.0	1,160	2.3				
88	2400	759	109,000	18.5	103,000	17.5	95,000	16.5	83,100	14.0	61,800	10.5	886	3.0		
96	2600	889	118,000	23.5	133,000	22.5	107,000	21.5	98,100	19.5	85,500	17.0	61,200	12.5		
103	2800	1.03			124,000	28	118,000	28	112,000	26	102,000	23.5	87,000	20	61,700	15.5
110	3000	1.19			134,000	35	130,000	35	124,000	33	116,000	31	107,000	28	94,200	25
118	3200	1.35			144,000	43	140,000	42	135,000	41	129,000	39	121,000	37	112,000	34
125	3400	1.52			154,000	52	150,000	50	146,000	50	141,000	50	135,000	46	127,000	43
132	3600	1.71			164,000	62	160,000	60	157,000	60	153,000	58	147,000	56	141,000	54
140	3800	1.90			174,000	74	170,000	72	167,000	70	163,000	70	159,000	68	153,000	66
147	4000	2.11					180,000	84	177,000	82	174,000	82	170,000	80	165,000	78
154	4200	2.32					190,000	98	187,000	96	184,000	96	181,000	94	177,000	92
162	4400	2.55					200,000	115	198,000	110	195,000	110	191,000	110	188,000	110
169	4600	2.78					210,000	130	208,000	130	205,000	125	202,000	125	199,000	125
176	4800	3.03							218,000	145	215,000	145	212,000	145	209,000	140
184	5000	3.29							228,000	165	225,000	165	222,000	160	220,000	160
193	5250	3.63							240,000	195	238,000	190	235,000	190	232,000	190
202	5500	3.98									250,000	220	247,000	220	245,000	215
212	5750	4.35									262,000	255	260,000	250	258,000	250
221	6000	4.74									274,000	290	272,000	290	270,000	285
230	6250	5.14											284,000	325	283,000	325
239	6500	5.56											297,000	370	295,000	365
248	6750	5.99													307,000	410

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
110	3000	1.19	55,400	15												
118	3200	1.35	99,800	30	9,900	9.1										
125	3400	1.52	118,000	40	87,900	30										
132	3600	1.71	133,000	50	114,000	43	24,100	15								
140	3800	1.90	147,000	64	132,000	56	108,000	46	13,000	15.5						
147	4000	2.11	160,000	76	147,000	70	130,000	62	99,100	47						
154	4200	2.32	172,000	90	162,000	84	148,000	76	129,000	66	37,600	26				
162	4400	2.55	184,000	105	174,000	100	163,000	94	148,000	84	125,000	68				
169	4600	2.78	195,000	120	187,000	115	177,000	110	164,000	105	150,000	92	23,600	30		
176	4800	3.03	206,000	140	198,000	135	190,000	130	179,000	120	166,000	110	123,000	84		
184	5000	3.29	217,000	160	210,000	155	203,000	150	193,000	145	182,000	135	151,000	110	20,600	37
193	5250	3.63	230,000	185	224,000	185	217,000	180	210,000	170	200,000	165	176,000	140	133,000	111
202	5500	3.98	243,000	215	237,000	210	232,000	210	224,000	200	216,000	195	196,000	175	168,000	150
212	5750	4.35	255,000	250	251,000	245	245,000	240	239,000	235	232,000	230	218,000	210	193,000	185
221	6000	4.74	268,000	280	264,000	280	259,000	275	253,000	270	247,000	265	232,000	250	213,000	225
230	6250	5.14	281,000	320	277,000	315	272,000	315	267,000	310	261,000	305	248,000	290	232,000	270
239	6500	5.56	293,000	360	288,000	360	285,000	355	281,000	350	275,000	345	264,000	330	250,000	315
248	6750	5.99	305,000	405	302,000	405	298,000	400	294,000	395	290,000	390	279,000	380	266,000	360
257	7000	6.45	318,000	455	314,000	450	310,000	450	307,000	440	303,000	435	293,000	425	282,000	410
276	7500	7.40	342,000	565	339,000	560	336,000	555	332,000	545	329,000	545	321,000	535	312,000	520
294	8000	8.41			363,000	680	361,000	675	358,000	670	355,000	660	347,000	655	340,000	650
312	8500	9.50			388,000	825	385,000	815	382,000	810	380,000	800	373,000	795	368,000	785

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
202	5500	3.98	36,900	54												
212	5750	4.35	158,000	155												
221	6000	4.74	188,000	195	95,000	96										
230	6250	5.14	211,000	240	182,000	210										
239	6500	5.56	232,000	290	210,000	260	32,900	84								
248	6750	5.99	250,000	335	232,000	310	164,000	215								
257	7000	6.15	268,000	390	252,000	360	206,000	295	19,200	90						
276	7500	7.40	301,000	505	288,000	480	255,000	420	202,000	335	150,000	105				
294	8000	8.41	330,000	630	320,000	610	205,000	555	260,000	485	198,000	375	13,500	120		
312	8500	9.50	359,000	775	350,000	755	330,000	705	301,000	645	269,000	570	181,000	430	16,200	155
331	9000	10.67	385,000	925	379,000	915	361,000	870	340,000	825	312,000	750	277,000	655	143,000	355
349	9500	11.89	412,000	1100	406,000	1000	392,000	1050	373,000	1000	351,000	940	324,000	860	290,000	765
308	10000	13.17	439,000	1280	433,000	1280	421,000	1250	405,000	1200	386,000	1150	364,000	1070	337,000	985

Single Inlet

No. 20 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
34	1075	.152	11,900	0.51												
39	1200	.189	52,500	2.2												
46	1400	.258	70,500	4.1	1,870	0.84										
52	1600	.337	85,500	6.5	63,000	4.7										
59	1800	.426	98,900	9.5	84,200	8.1	15,300	2.35								
65	2000	.526	112,000	13.0	101,000	12	82,400	7.6	4,270	2.4						
72	2200	.636	125,000	17.5	116,000	17	103,000	14.5	80,200	11.5	1,470	2.0				
78	2400	.759	138,000	23	130,000	22	120,000	20.5	105,000	18	78,300	13.5	1,120	3.8		
85	2600	.889	150,000	29	143,000	29	136,000	27	124,000	25	108,000	21.5	77,500	16		
92	2800	1.03			157,000	36	150,000	35	141,000	33	129,000	30	110,000	25	78,100	20
98	3000	1.19			170,000	45	164,000	44	156,000	42	147,000	39	135,000	36	119,000	31
105	3200	1.35			182,000	54	177,000	54	171,000	52	163,000	50	154,000	47	142,000	43
111	3400	1.52			195,000	66	190,000	64	185,000	64	178,000	62	171,000	58	161,000	54
118	3600	1.71			207,000	80	203,000	76	198,000	76	193,000	74	186,000	72	177,000	68
124	3800	1.90			220,000	94	216,000	92	211,000	90	206,000	88	201,000	86	194,000	84
131	4000	2.11					228,000	105	224,000	105	220,000	105	215,000	100	210,000	100
137	4200	2.32					241,000	125	236,000	120	233,000	120	229,000	120	224,000	120
144	4400	2.55					253,000	145	250,000	140	246,000	140	242,000	140	238,000	135
150	4600	2.78					265,000	165	262,000	165	259,000	160	255,000	160	251,000	155
157	4800	3.03							275,000	185	272,000	185	269,000	180	265,000	180
163	5000	3.29							288,000	210	284,000	210	281,000	205	278,000	205
172	5250	3.63							303,000	245	300,000	240	297,000	240	294,000	235
180	5500	3.98									316,000	280	322,000	275	310,000	275
188	5750	4.35									331,000	320	329,000	320	326,000	315
196	6000	4.74									346,000	370	345,000	365	342,000	360
204	6250	5.14											360,000	410	358,000	410
212	6500	5.56											375,000	465	373,000	460
222	6750	5.99													389,000	520

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
98	3000	1.19	70,100	19												
105	3200	1.35	126,000	38	12,600	11.5										
111	3400	1.52	149,000	50	141,000	38										
118	3600	1.71	168,000	64	144,000	54	30,500	19								
124	3800	1.90	187,000	80	167,000	70	137,000	58	16,500	19.5						
131	4000	2.11	203,000	96	186,000	88	165,000	78	126,000	60						
137	4200	2.32	218,000	115	204,000	105	187,000	98	162,000	84	47,600	32				
144	4400	2.55	233,000	135	220,000	125	206,000	120	188,000	105	158,000	86				
150	4600	2.78	246,000	155	236,000	150	224,000	140	208,000	130	190,000	120	29,800	38		
157	4800	3.03	260,000	180	251,000	170	240,000	165	226,000	155	210,000	140	156,000	105		
163	5000	3.29	274,000	205	266,000	200	256,000	190	244,000	180	230,000	170	192,000	140	26,000	46
172	5250	3.63	290,000	235	284,000	230	274,000	225	265,000	220	252,000	205	223,000	180	169,000	135
180	5500	3.98	307,000	270	301,000	270	293,000	265	284,000	255	274,000	245	248,000	220	213,000	190
188	5750	4.35	322,000	315	317,000	310	310,000	305	303,000	300	293,000	290	272,000	265	244,000	235
196	6000	4.74	340,000	355	334,000	350	328,000	350	321,000	340	312,000	335	294,000	315	270,000	285
204	6250	5.14	358,000	405	351,000	400	345,000	395	338,000	390	330,000	385	314,000	365	293,000	340
212	6500	5.56	371,000	455	365,000	450	361,000	450	355,000	445	348,000	440	334,000	420	316,000	395
222	6750	5.99	387,000	515	382,000	510	377,000	505	372,000	500	367,000	495	353,000	480	336,000	455
229	7000	6.45	402,000	575	398,000	570	393,000	565	389,000	560	383,000	555	371,000	540	356,000	520
245	7500	7.40	432,000	715	430,000	710	425,000	705	420,000	690	416,000	690	406,000	680	395,000	660
262	8000	8.41			460,000	860	456,000	855	453,000	850	449,000	840	440,000	830	431,000	820
278	8500	9.50			492,000	1050	488,000	1030	484,000	1030	481,000	1020	472,000	1010	465,000	995

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
180	5500	3.98	46,600	68												
188	5750	4.35	200,000	195												
196	6000	4.74	238,000	250	120,000	120										
204	6250	5.14	267,000	305	230,000	265										
212	6500	5.56	294,000	365	266,000	330	41,600	105								
222	6750	5.99	316,000	425	293,000	390	207,000	275								
229	7000	6.45	339,000	495	319,000	460	261,000	375	24,300	115						
245	7500	7.40	381,000	635	365,000	610	322,000	530	255,000	420	19,000	135				
202	8000	8.41	418,000	800	405,000	775	373,000	705	329,000	615	251,000	475	17,100	150		
278	8500	9.50	454,000	980	443,000	955	417,000	895	381,000	820	340,000	720	228,000	545	20,400	200
294	9000	10.67	487,000	1170	480,000	1160	457,000	1100	430,000	1040	395,000	950	350,000	830	180,000	450
310	9500	11.89	522,000	1400	515,000	1380	495,000	1330	472,000	1270	444,000	1190	410,000	1000	366,000	970
327	10000	13.17	555,000	1630	548,000	1620	532,000	1580	512,000	1520	488,000	1460	460,000	1360	426,000	1250

Single Inlet

No. 22 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
31	1075	.152	11,700	0.63												
35	1200	.189	65,000	2.75												
41	1400	.258	87,000	5.1	2,300	1.05										
47	1600	.337	106,000	8.0	77,800	5.8										
53	1800	.426	122,000	11.5	114,000	10	18,800	2.9								
59	2000	.526	139,000	16	125,000	15.0	102,000	12	5,300	2.9						
65	2200	.636	154,000	22	141,000	20.5	127,000	18	99,100	14	1,800	3.55				
71	2400	.759	170,000	29	161,000	27	148,000	25	130,000	22	96,700	16.5	1,400	4.65		
77	2600	.889	185,000	36	177,000	35	167,000	34	153,000	31	134,000	26	95,600	19.5		
82	2800	1.03			194,000	45	185,000	43	174,000	41	160,000	37	136,000	31	96,500	21.5
88	3000	1.19			210,000	56	202,000	54	193,000	52	181,000	49	166,000	44	147,000	39
94	3200	1.35			225,000	68	219,000	66	211,000	64	201,000	62	190,000	58	175,000	54
100	3400	1.52			241,000	82	235,000	80	228,000	78	220,000	78	211,000	72	199,000	68
106	3600	1.71			256,000	98	250,000	94	245,000	94	238,000	92	229,000	88	220,000	84
112	3800	1.90			271,000	115	266,000	115	261,000	110	255,000	110	248,000	105	239,000	105
118	4000	2.11					282,000	130	277,000	130	271,000	130	266,000	125	258,000	125
124	4200	2.32					298,000	155	292,000	150	288,000	150	283,000	150	276,000	145
129	4400	2.55					313,000	180	309,000	175	304,000	175	299,000	170	294,000	170
135	4600	2.78					328,000	205	324,000	200	320,000	200	315,000	195	310,000	195
141	4800	3.03							340,000	235	336,000	225	332,000	225	327,000	220
147	5000	3.29							355,000	260	352,000	255	348,000	255	343,000	250
154	5250	3.63							374,000	300	371,000	300	367,000	300	363,000	295
162	5500	3.98									390,000	345	386,000	340	382,000	340
169	5750	4.35									409,000	395	406,000	390	403,000	390
176	6000	4.74									428,000	455	426,000	450	422,000	445
184	6250	5.14											441,000	510	442,000	505
191	6500	5.56											463,000	575	460,000	570
198	6750	5.99													480,000	640

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
88	3000	1.19	86,600	23.5												
94	3200	1.35	156,000	47	15,600	14.5										
100	3400	1.52	184,000	62	137,000	47										
106	3600	1.71	208,000	80	178,000	68	88,700	23.5								
112	3800	1.90	230,000	98	206,000	88	169,000	72	20,400	24.5						
118	4000	2.11	250,000	120	230,000	110	204,000	96	155,000	74						
124	4200	2.32	269,000	140	252,000	130	231,000	120	200,000	105	58,900	40				
129	4400	2.55	288,000	165	272,000	155	254,000	145	232,000	130	196,000	105				
135	4600	2.78	304,000	190	292,000	185	276,000	175	257,000	160	235,000	145	36,800	47		
141	4800	3.03	322,000	220	310,000	215	297,000	205	280,000	190	260,000	175	192,000	130		
147	5000	3.29	339,000	250	329,000	245	317,000	225	302,000	225	285,000	215	237,000	175	32,200	58
154	5250	3.63	359,000	290	351,000	285	339,000	280	328,000	270	312,000	255	275,000	220	208,000	170
162	5500	3.98	379,000	335	371,000	330	362,000	325	351,000	315	338,000	305	307,000	275	263,000	235
169	5750	4.35	398,000	390	392,000	385	383,000	380	374,000	370	362,000	355	336,000	330	301,000	290
176	6000	4.74	420,000	440	412,000	435	406,000	435	396,000	425	386,000	415	363,000	385	333,000	355
184	6250	5.14	439,000	500	433,000	495	425,000	490	418,000	485	409,000	475	388,000	450	362,000	420
191	6500	5.56	458,000	565	450,000	560	445,000	555	439,000	550	430,000	540	413,000	520	391,000	490
198	6750	5.99	477,000	635	472,000	630	465,000	625	460,000	615	453,000	610	435,000	590	415,000	565
206	7000	6.45	496,000	710	491,000	715	485,000	700	480,000	690	473,000	685	458,000	670	440,000	640
221	7500	7.40	534,000	880	530,000	875	525,000	865	520,000	855	514,000	850	501,000	835	488,000	815
235	8000	8.41			568,000	1060	564,000	1060	559,000	1050	555,000	1040	543,000	1020	532,000	1010
250	8500	9.50			606,000	1290	601,000	1280	598,000	1270	594,000	1250	583,000	1040	575,000	1230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
162	5500	3.98	57,000	84												
169	5750	4.35	247,000	240												
176	6000	4.74	294,000	310	14,900	150										
184	6250	5.14	330,000	380	285,000	325										
191	6500	5.56	363,000	450	328,000	405	51,500	130								
198	6750	5.99	391,000	525	362,000	485	256,000	340								
206	7000	6.45	419,000	610	394,000	565	323,000	460	30,000	140						
221	7500	7.40	474,000	785	450,000	750	398,000	655	315,000	520	23,500	165				
235	8000	8.41	517,000	990	501,000	955	460,000	870	407,000	760	310,000	585	21,100	190		
250	8500	9.50	561,000	1210	547,000	1180	515,000	1110	471,000	1010	420,000	885	282,000	675	25,200	245
265	9000	10.67	602,000	1450	593,000	1430	565,000	1360	531,000	1290	489,000	1170	433,000	1030	223,000	555
279	9500	11.89	645,000	1730	635,000	1710	612,000	1650	584,000	1570	549,000	1470	506,000	1340	453,000	1200
294	10000	13.17	686,000	2010	678,000	2000	658,000	1960	633,000	1880	603,000	1800	570,000	1680	527,000	1550

Single Inlet **Single Width**

No. 24 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
28	1075	.152	17,800	0.76												
32	1200	.189	78,300	3.3												
37	1400	.258	105,000	6.2	2,790	1.25										
43	1600	.337	128,000	9.7	94,200	7.1										
48	1800	.426	148,000	14.0	126,000	12	22,800	3.55								
52	2000	.526	168,000	19.5	151,000	18	123,000	14.5	6,390	3.55						
59	2200	.636	187,000	26	174,000	25	154,000	22	120,000	17	2,200	4.3				
64	2400	.759	206,000	35	195,000	33	180,000	31	157,000	27	117,000	20	1,680	5.7		
70	2600	.889	224,000	44	215,000	43	203,000	41	186,000	37	162,000	32	116,000	24		
75	2800	1.03			231,000	54	224,000	52	211,000	49	193,000	45	165,000	38	117,000	29
80	3000	1.19			254,000	66	245,000	66	234,000	62	220,000	58	202,000	54	178,000	47
86	3200	1.35			272,000	82	266,000	80	256,000	78	244,000	74	230,000	70	212,000	65
91	3400	1.52			291,000	98	284,000	96	276,000	94	266,000	94	256,000	88	240,000	82
96	3600	1.71			309,000	120	303,000	115	296,000	115	288,000	110	278,000	105	266,000	100
102	3800	1.90			328,000	140	322,000	135	315,000	135	308,000	130	300,000	103	289,000	125
107	4000	2.11					341,000	160	335,000	155	328,000	155	322,000	155	312,000	140
112	4200	2.32					360,000	185	353,000	185	348,000	180	342,000	180	334,000	175
118	4400	2.55					378,000	215	374,000	215	368,000	210	361,000	205	355,000	205
123	4600	2.78					397,000	245	392,000	240	387,000	240	381,000	235	376,000	235
128	4800	3.03							411,000	275	406,000	275	401,000	270	396,000	270
134	5000	3.29							430,000	315	425,000	310	420,000	305	415,000	305
140	5250	3.63							453,000	365	449,000	360	444,000	360	439,000	355
147	5500	3.98									472,000	420	467,000	410	463,000	410
150	5750	4.35									495,000	480	492,000	475	488,000	470
160	6000	4.74									518,000	550	515,000	545	511,000	540
167	6250	5.14											538,000	615	535,000	610
174	6500	5.56											561,000	695	558,000	690
181	6750	5.99													581,000	775

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
80	3000	1.19	105,000	28												
86	3200	1.35	189,000	56	18,900	17.5										
91	3400	1.52	223,000	76	166,000	56										
96	3600	1.71	252,000	96	216,000	82	45,600	28								
102	3800	1.90	279,000	120	250,000	105	205,000	86	24,700	29						
107	4000	2.11	303,000	145	279,000	130	246,000	110	188,000	88						
112	4200	2.32	326,000	170	305,000	160	279,000	145	248,000	125	71,200	49				
118	4400	2.55	348,000	200	329,000	190	307,000	175	280,000	160	237,000	130				
123	4600	2.78	368,000	230	353,000	220	334,000	210	310,000	195	284,000	175	44,500	56		
128	4800	3.03	389,000	265	375,000	260	359,000	245	338,000	230	314,000	215	238,000	160		
134	5000	3.29	410,000	305	398,000	295	383,000	285	365,000	270	344,000	260	286,000	210	38,900	70
140	5250	3.63	434,000	350	424,000	345	410,000	340	396,000	325	377,000	310	333,000	270	252,000	205
147	5500	3.98	459,000	405	449,000	400	438,000	395	424,000	380	409,000	370	371,000	330	318,000	280
150	5750	4.35	482,000	470	474,000	460	464,000	455	452,000	445	438,000	430	407,700	400	364,000	355
160	6000	4.74	508,000	535	499,000	525	490,000	525	479,000	510	467,000	500	439,000	470	403,000	425
167	6250	5.14	531,000	605	524,000	600	515,000	595	505,000	585	494,000	575	469,000	545	438,000	505
174	6500	5.56	554,000	685	545,000	675	539,000	670	531,000	665	520,000	655	499,000	630	473,000	595
181	6750	5.99	578,000	770	572,000	765	564,000	755	556,000	745	548,000	740	527,000	715	503,000	685
187	7000	6.45	601,000	860	595,000	855	588,000	850	581,000	840	578,000	825	554,000	810	533,000	775
200	7500	7.40	647,000	1070	642,000	1060	635,000	1010	629,000	1030	622,000	1030	607,000	1010	590,000	990
214	8000	8.41			688,000	1280	683,000	1280	677,000	1270	671,000	1250	657,000	1240	645,000	1230
227	8500	9.50			735,000	1560	729,000	1540	724,000	1530	719,000	1520	706,000	1500	695,000	1490

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
147	5500	3.98	69,800	100												
150	5750	4.35	298,000	290												
160	6000	4.74	356,000	375	180,000	180										
167	6250	5.14	399,000	455	344,000	395										
174	6500	5.56	439,000	545	397,000	490	62,300	160								
181	6750	5.99	473,000	635	438,000	585	309,000	410								
187	7000	6.45	507,000	740	476,000	685	390,000	560	36,300	170						
200	7500	7.40	569,000	950	545,000	910	481,000	795	381,000	630	28,500	200				
214	8000	8.41	625,000	1200	606,000	1160	557,000	1050	492,000	920	375,000	705	25,600	225		
227	8500	9.50	679,000	1460	663,000	1430	624,000	1340	570,000	1220	509,000	1070	340,000	820	30,500	300
241	9000	10.67	729,000	1750	718,000	1730	683,000	1650	643,000	1560	591,000	1420	424,000	1240	270,000	670
254	9500	11.89	781,000	2090	769,000	2070	741,000	1990	706,000	1900	664,000	1780	613,000	1620	548,000	1450
268	10000	13.17	831,000	2430	820,000	2420	797,000	2370	766,000	2280	730,000	2180	689,000	2030	638,000	1870

Single Inlet

No. 26 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
21	1075	.152	21,200	.90												
28	1200	.189	93,500	3.95												
32	1400	.258	125,000	7.4	3,330	1.50										
37	1600	.337	152,000	11.5	112,000	8.4										
42	1800	.426	176,000	17.0	150,000	14.5	27,200	4.2								
46	2000	.526	200,000	23.5	180,000	21.5	147,000	17.0	7,600	4.25						
51	2200	.636	222,000	31	207,000	30	183,000	26	143,000	20.5	2,620	5.1				
55	2400	.759	245,000	41	232,000	40	214,000	37	187,000	32	140,000	23.5	2,000	6.7		
60	2600	.889	266,000	52	256,000	50	241,000	49	221,000	44	192,000	38	138,000	28		
65	2800	1.03			279,000	64	267,000	62	251,000	58	230,000	54	196,000	45	139,000	35
69	3000	1.19			303,000	80	292,000	78	278,000	74	261,000	70	240,000	64	212,000	56
74	3200	1.35			324,000	96	315,000	96	304,000	94	290,000	88	273,000	82	252,000	78
78	3400	1.52			347,000	115	338,000	115	328,000	110	317,000	110	304,000	105	286,000	98
83	3600	1.71			368,000	140	360,000	135	353,000	135	343,000	135	330,000	125	317,000	120
88	3800	1.90			391,000	165	384,000	165	376,000	160	367,000	155	357,000	155	344,000	150
92	4000	2.11					406,000	190	399,000	185	391,000	185	383,000	180	372,000	180
97	4200	2.32					429,000	220	421,000	220	415,000	215	407,000	215	398,000	210
102	4400	2.55					450,000	260	445,000	255	438,000	250	430,000	245	423,000	240
106	4600	2.78					472,000	295	467,000	290	461,000	285	454,000	280	448,000	280
111	4800	3.03							490,000	330	484,000	325	478,000	325	472,000	320
115	5000	3.29							512,000	375	506,000	370	500,000	365	495,000	360
121	5250	3.63							539,000	435	535,000	430	529,000	430	523,000	420
127	5500	3.98									562,000	500	557,000	490	552,000	490
133	5750	4.35									590,000	570	586,000	565	581,000	560
138	6000	4.74									616,000	655	614,000	650	608,000	640
144	6250	5.14											640,000	735	637,000	725
150	6500	5.56											668,000	830	665,000	820
156	6750	5.99													691,000	925

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
69	3000	1.19	125,000	34												
74	3200	1.35	225,000	68	22,400	20.5										
78	3400	1.52	265,000	90	198,000	68										
83	3600	1.71	300,000	115	257,000	98	54,300	33								
88	3800	1.90	332,000	140	297,000	125	244,000	105	29,400	35						
92	4000	2.11	360,000	170	332,000	155	293,000	140	223,000	105						
97	4200	2.32	388,000	205	364,000	190	333,000	170	289,000	150	84,800	58				
102	4400	2.55	415,000	240	392,000	225	366,000	210	334,000	190	282,000	155				
106	4600	2.78	438,000	275	421,000	265	398,000	250	370,000	230	338,000	210	53,000	66		
111	4800	3.03	464,000	315	447,000	305	428,000	295	403,000	275	374,000	255	277,000	190		
115	5000	3.29	489,000	360	474,000	350	456,000	340	434,000	325	410,000	305	341,000	250	46,300	82
121	5250	3.63	517,000	420	505,000	410	488,000	400	472,000	385	449,000	370	396,000	320	300,000	245
127	5500	3.98	547,000	485	535,000	480	521,000	470	505,000	455	487,000	440	442,000	395	379,000	335
133	5750	4.35	574,000	560	565,000	550	552,000	545	538,000	530	521,000	515	484,000	475	434,000	420
138	6000	4.74	605,000	635	595,000	630	584,000	625	570,000	610	556,000	595	522,000	560	480,000	519
144	6250	5.14	632,000	720	624,000	710	614,000	705	601,000	695	588,000	685	559,000	650	521,000	605
150	6500	5.56	660,000	815	650,000	805	642,000	800	632,000	790	619,000	780	594,000	750	563,000	705
156	6750	5.99	688,000	915	681,000	910	671,000	900	662,000	890	652,000	880	627,000	850	599,000	810
161	7000	6.45	715,000	1020	708,000	1020	699,000	1010	692,000	995	681,000	985	660,000	960	634,000	925
173	7500	7.40	770,000	1270	764,000	1260	756,000	1250	749,000	1230	740,000	1220	722,000	1200	702,000	1180
184	8000	8.41			817,000	1530	812,000	1520	806,000	1510	798,000	1490	783,000	1470	767,000	1460
196	8500	9.50			875,000	1860	867,000	1840	861,000	1820	855,000	1810	840,000	1790	827,000	1770

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
127	5500	3.98	83,300	120												
133	5750	4.35	355,000	345												
138	6000	4.74	424,000	445	214,000	215										
144	6250	5.14	475,000	545	410,000	470										
150	6500	5.56	522,000	650	473,000	585	74,100	190								
156	6750	5.99	563,000	755	521,000	695	368,000	490								
161	7000	6.45	603,000	880	566,000	815	465,000	665	43,200	200						
173	7500	7.40	677,000	1120	649,000	1080	573,000	945	454,000	750	33,900	240				
184	8000	8.41	741,000	1420	721,000	1380	603,000	1250	586,000	1090	446,000	846	30,400	270		
196	8500	9.50	808,000	1740	788,000	1700	742,000	1590	679,000	1460	606,000	1280	406,000	975	36,300	355
208	9000	10.67	867,000	2080	854,000	2060	813,000	1960	765,000	1860	704,000	1690	623,000	1480	321,000	880
219	9500	11.89	929,000	2480	914,000	2460	881,000	2370	846,000	2200	790,000	2120	729,000	1930	652,000	1700
230	10000	13.17	988,000	2890	975,000	2880	947,000	2820	911,000	2710	888,000	2600	820,000	2420	759,000	2220

7

Double Inlet

No. 2 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
294	1000	0.1284	448	0.014												
353	1200	0.185	724	0.033												
412	1400	0.252	971	0.062												
470	1600	0.329	1,220	0.100	830	0.067										
529	1800	0.412	1,450	0.155	1,150	0.120	908	0.093								
588	2000	0.511	1,670	0.220	1,400	0.180	1,170	0.115	895	0.110						
646	2200	0.621	1,870	0.295	1,650	0.260	1,430	0.22	1,170	0.180						
705	2400	0.740	2,080	0.395	1,880	0.355	1,680	0.31	1,450	0.265	1,260	0.225				
765	2600	0.868	2,280	0.5	2,110	0.47	1,910	0.42	1,690	0.365	1,530	0.325	1,370	0.29		
824	2800	1.01			2,330	0.60	2,150	0.55	1,960	0.50	1,790	0.46	1,620	0.40	1,470	0.365
882	3000	1.16			2,540	0.75	2,390	0.70	2,190	0.65	2,040	0.59	1,840	0.53	1,730	0.49
941	3200	1.32			2,750	0.92	2,600	0.87	2,410	0.81	2,260	0.75	2,090	0.70	1,950	0.63
1000	3400	1.49			2,960	1.10	2,810	1.05	2,670	1.00	2,520	0.95	2,340	0.89	2,210	0.82
1059	3600	1.67			3,150	1.35	3,040	1.30	2,910	1.25	2,760	1.15	2,600	1.10	2,440	1.00
1118	3800	1.86					3,240	1.55	3,120	1.50	2,990	1.40	2,850	1.35	2,690	1.25
1177	4000	2.01					3,450	1.80	3,330	1.75	3,210	1.70	3,080	1.60	2,940	1.55
1236	4200	2.27					3,650	2.10	3,550	2.05	3,440	2.00	3,320	1.90	3,190	1.85
1294	4400	2.49					3,850	2.45	3,750	2.40	3,660	2.35	3,550	2.25	3,420	2.15
1353	4600	2.72							3,950	2.75	3,870	2.70	3,760	2.60	3,650	2.55
1412	4800	2.96							4,160	3.15	4,070	3.40	3,980	3.00	3,880	2.95
1471	5000	3.21							4,360	3.55	4,280	3.50	4,200	3.45	4,100	3.35
1545	5250	3.54							4,600	4.15	4,530	4.10	4,460	4.05	4,360	3.95
1618	5500	3.89									4,790	4.75	4,710	4.7	4,640	4.6
1692	5750	4.25									5,010	5.5	4,970	5.4	4,870	5.3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
882	3000	1.16	1,530	0.435												
941	3200	1.32	1,810	0.58	1,510	0.485										
1000	3400	1.49	2,050	0.76	1,780	0.65										
1059	3600	1.67	2,290	0.95	2,010	0.83	1,820	0.74								
1118	3800	1.86	2,540	1.20	2,290	1.05	2,120	0.97	1,810	0.82						
1177	4000	2.01	2,800	1.45	2,540	1.30	2,340	1.20	2,080	1.05	1,790	0.87				
1236	4200	2.27	3,050	1.75	2,810	1.60	2,600	1.45	2,360	1.30	2,070	1.15				
1294	4400	2.49	3,300	2.10	3,040	1.90	2,800	1.75	2,620	1.60	2,350	1.45				
1353	4600	2.72	3,530	2.45	3,300	2.25	3,100	2.10	2,880	1.95	2,680	1.80	2,240	1.50		
1412	4800	2.96	3,760	2.85	3,550	2.65	3,340	2.50	3,140	2.30	2,900	2.10	2,520	1.85		
1471	5000	3.21	4,000	3.30	3,790	3.10	3,590	2.90	3,380	2.75	3,140	2.50	2,790	2.20	2,400	1.90
1545	5250	3.54	4,280	3.85	4,090	3.70	3,830	3.50	3,690	3.30	3,470	3.05	3,110	2.70	2,810	2.45
1618	5500	3.89	4,550	4.55	4,360	4.35	4,180	4.15	3,980	3.90	3,760	3.65	3,390	3.25	3,100	2.95
1692	5750	4.25	4,820	5.3	4,650	5.0	4,460	4.85	4,270	4.65	4,090	4.4	3,710	3.90	3,420	3.55
1767	6000	4.62	5,070	6.0	4,920	5.8	4,760	5.6	4,580	5.4	4,400	5.2	4,010	4.65	3,730	4.35
1840	6250	5.01	5,350	6.9	5,190	6.6	5,050	6.4	4,870	6.2	4,700	6.0	4,320	5.5	4,050	5.0
1912	6500	5.43	5,600	7.7	5,460	7.6	5,300	7.4	5,160	7.2	4,990	6.9	4,650	6.4	4,360	5.8
1986	6750	5.85	5,850	8.7	5,720	8.6	5,580	8.3	5,450	8.1	5,280	7.9	4,980	7.4	4,670	6.9
2060	7000	6.30	6,000	9.8	5,980	9.6	5,850	9.5	5,710	9.2	5,570	9.0	5,266	8.5	4,980	7.9
2205	7500	7.22			6,510	12.0	6,380	12.0	6,250	11.5	6,120	11.5	5,800	11.0	5,570	10.5
2355	8000	8.22			6,990	14.5	6,890	14.5	6,790	14.5	6,600	14.0	6,430	13.5	6,160	13.0
2500	8500	9.28					7,300	17.5	7,300	17.5	7,190	17.0	6,970	16.5	6,750	16.0
2645	9000	10.40					7,880	21	7,800	21.0	7,730	20.5	7,520	20	7,300	19.5
2795	9500	11.60							8,330	21.5	8,230	24.5	8,040	24	7,850	23
2940	10000	12.84									8,710	29	8,550	28	8,390	27

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1618	5500	3.89	2,730	2.60												
1692	5750	4.25	3,160	3.15	2,740	2.85										
1767	6000	4.62	3,400	3.85	3,080	3.20										
1840	6250	5.01	3,710	4.55	3,410	4.20										
1912	6500	5.43	4,000	5.4	3,790	4.85	3,190	4.25								
1986	6750	5.85	4,310	6.3	4,050	5.8	3,520	5.0								
2060	7000	6.30	4,620	7.3	4,370	6.8	3,840	5.9	3,280	5.0						
2205	7500	7.22	5,250	9.6	5,000	8.9	4,470	7.9	3,940	7.0	3,410	5.9				
2355	8000	8.22	5,880	12.5	5,590	11.5	5,080	10.5	4,600	9.2	4,130	8.3	3,590	7.0		
2500	8500	9.28	6,500	15.5	6,230	14.5	5,700	13.5	5,220	12	4,790	11.0	4,350	9.9	3,860	8.5
2645	9000	10.40	7,080	18.5	6,830	18	6,330	16.5	5,850	15	5,430	14.0	5,030	13	4,620	12.0
2795	9500	11.60	7,660	22.5	7,430	22	6,970	20.5	6,480	19	6,040	17.5	5,690	16	5,300	15.0
2940	10000	12.84	8,190	27	8,000	26	7,580	25	7,110	23	6,660	21.5	6,270	20	5,940	18.5

Double Inlet

No. 3 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
235	1000	0.1281	700	0.021												
282	1200	0.185	1,130	0.051												
329	1400	0.252	1,520	0.096												
376	1600	0.329	1,900	0.160	1,300	0.105										
424	1800	0.412	2,270	0.240	1,790	0.185	1,420	0.145								
470	2000	0.514	2,600	0.340	2,180	0.285	1,830	0.230	1,400	0.17						
517	2200	0.621	2,930	0.465	2,580	0.405	2,230	0.345	1,830	0.28						
565	2400	0.740	3,250	0.61	2,940	0.056	2,620	0.485	2,260	0.41	1,970	0.35				
611	2600	0.868	3,550	0.79	3,300	0.73	2,980	0.66	2,640	0.57	2,380	0.51	2,140	0.455		
659	2800	1.01			3,630	0.94	3,350	0.86	3,070	0.78	2,800	0.72	2,530	0.62	2,300	0.57
705	3000	1.16			3,960	1.15	3,720	1.10	3,430	1.00	3,180	0.92	2,880	0.82	2,690	0.76
753	3200	1.32			4,290	1.45	4,000	1.35	3,800	1.25	3,530	1.45	3,330	1.10	3,010	0.99
800	3400	1.49			4,610	1.75	4,380	1.65	4,170	1.60	3,930	1.50	3,700	1.40	3,450	1.25
847	3600	1.67			4,920	2.1	4,740	2.00	4,540	1.95	4,300	1.80	4,060	1.70	3,810	1.60
894	3800	1.86					5,050	2.40	4,870	2.30	4,660	2.20	4,440	2.10	4,200	1.95
941	4000	2.01					5,380	2.80	5,200	2.75	5,010	2.65	4,800	2.55	4,580	2.40
988	4200	2.27					5,700	3.3	5,540	3.20	5,360	3.10	5,180	3.00	4,970	2.90
1036	4400	2.49					6,010	3.8	5,800	3.75	5,700	3.65	5,540	3.50	5,330	3.40
1082	4600	2.72							6,160	4.25	6,040	4.2	5,860	4.05	5,690	3.95
1130	4800	2.96							6,500	4.9	6,350	4.8	6,210	4.7	6,050	4.6
1178	5000	3.21							6,810	5.6	6,690	5.5	6,550	5.4	6,390	5.2
1235	5250	3.54							7,190	6.5	7,070	6.4	6,960	6.3	6,810	6.2
1293	5500	3.89									7,470	7.4	7,350	7.3	7,190	7.2
1353	5750	4.25									7,860	8.5	7,750	8.4	7,600	8.2

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
705	3000	1.16	2,390	0.68												
753	3200	1.32	2,820	0.91	2,350	0.76										
800	3400	1.49	3,200	1.20	2,790	1.00										
847	3600	1.67	3,580	1.50	3,130	1.30	2,830	1.15								
894	3800	1.86	3,970	1.85	3,580	1.65	3,310	1.50	2,820	1.30						
941	4000	2.01	4,360	2.25	3,970	2.00	3,660	1.85	3,240	1.65	2,800	1.35				
988	4200	2.27	4,760	2.75	4,380	2.50	4,060	2.30	3,680	2.05	3,240	1.80				
1036	4400	2.49	5,150	3.25	4,740	3.00	4,470	2.75	4,090	2.50	3,670	2.25				
1082	4600	2.72	5,510	3.85	5,150	3.55	4,840	3.30	4,500	3.00	4,190	2.8	3,510	2.35		
1130	4800	2.96	5,880	4.45	5,540	4.15	5,210	3.90	4,900	3.60	4,520	3.3	3,930	2.85		
1178	5000	3.21	6,250	5.1	5,910	4.85	5,600	4.55	5,280	4.25	4,900	3.9	4,360	3.45	3,740	2.95
1235	5250	3.54	6,690	6.0	6,380	5.7	6,050	5.4	5,760	5.2	5,410	4.8	4,860	4.2	4,380	3.8
1293	5500	3.89	7,110	7.1	6,810	6.8	6,520	6.5	6,210	6.1	5,860	5.7	5,300	5.1	4,830	4.6
1353	5750	4.25	7,520	8.2	7,250	7.9	6,980	7.5	6,670	7.2	6,380	6.9	5,790	6.1	5,340	5.6
1412	6000	4.62	7,910	9.4	7,690	9.1	7,440	8.8	7,150	8.4	6,860	8.1	6,280	7.2	5,830	6.8
1471	6250	5.01	8,350	10.5	8,100	10.5	7,870	10.0	7,600	9.7	7,350	9.3	6,750	8.5	6,310	7.9
1530	6500	5.43	8,740	12.0	8,530	12.0	8,280	11.5	8,050	11.0	7,800	11.0	7,260	10.0	6,810	9.1
1589	6750	5.85	9,130	13.5	8,930	13.5	8,710	13.0	8,500	12.5	8,250	12.5	7,750	11.5	7,300	10.5
1648	7000	6.20	9,520	15.5	9,340	15.0	9,140	15.0	8,920	14.5	8,700	14.0	8,220	13	7,780	12.5
1764	7500	7.22			10,200	18.5	9,960	18.5	9,760	18.0	9,560	17.5	9,150	17	8,700	16
1882	8000	8.22			10,900	23	10,800	22.5	10,600	22.5	10,400	22	10,000	21	9,610	20
2000	8500	9.28					11,500	27	11,400	27	11,200	27	10,900	26	10,500	25
2120	9000	10.40					12,300	33	12,200	32	12,100	32	11,700	31	11,400	30
2237	9500	11.60							13,000	38	12,800	38	12,500	37	12,300	36
2352	10000	12.81									13,600	45	13,400	44	13,100	43

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1293	5500	3.89	4,270	4.05												
1353	5750	4.25	4,780	4.9	4,280	4.45										
1412	6000	4.62	5,300	6.0	4,800	4.95										
1471	6250	5.01	5,800	7.1	5,320	6.5										
1530	6500	5.43	6,250	8.4	5,910	7.6	4,970	6.6								
1589	6750	5.85	6,730	9.8	6,330	9.1	5,490	7.9								
1648	7000	6.30	7,220	11.5	6,830	10.5	5,990	9.3	5,110	7.9						
1764	7500	7.22	8,200	15	7,810	14	6,970	12.5	6,150	11.0	5,320	9.2				
1882	8000	8.22	9,190	19	8,740	18	7,920	16.0	7,180	14.5	6,440	13	5,600	11.0		
2000	8500	9.28	10,100	24	9,720	23	8,890	20.5	8,150	18.5	7,470	17	6,800	15.5	6,020	13.5
2120	9000	10.40	11,000	29	10,700	28	9,860	26	9,140	23.5	8,500	22	7,860	20	7,210	18.5
2237	9500	11.60	12,000	35	11,600	34	10,900	32	10,100	30	9,420	27	8,880	25	8,280	23.5
2352	10000	12.81	12,800	42	12,500	41	11,800	39	11,100	36	10,400	34	9,800	31	9,270	29

Double Inlet

No. 4 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
196	1000	0.1284	1,010	0.031												
235	1200	0.185	1,630	0.074												
274	1400	0.252	2,180	0.140												
314	1600	0.329	2,740	0.230	1,870	0.150										
353	1800	0.412	3,260	0.345	2,580	0.265	2,040	0.210								
392	2000	0.514	3,750	0.49	3,150	0.41	2,630	0.330	2,010	0.245						
431	2200	0.621	4,210	0.67	3,710	0.59	3,210	0.495	2,640	0.40						
476	2400	0.740	4,670	0.89	4,230	0.80	3,760	0.70	3,260	0.59	2,840	0.51				
510	2600	0.868	5,120	1.15	4,750	1.05	4,290	0.95	3,800	0.82	3,430	0.73	3,090	0.66		
549	2800	1.01			5,230	1.35	4,820	1.25	4,410	1.10	4,030	1.05	3,640	0.90	3,310	0.82
588	3000	1.16			5,700	1.70	5,360	1.60	4,930	1.45	4,580	1.35	4,150	1.20	3,880	1.10
627	3200	1.32			6,180	2.05	5,850	1.95	5,470	1.85	5,080	1.70	4,790	1.55	4,380	1.45
666	3400	1.49			6,640	2.5	6,300	2.40	6,010	2.25	5,660	2.15	5,320	2.00	4,970	1.85
705	3600	1.67			7,090	3	6,820	2.90	6,530	2.75	6,200	2.60	5,850	2.45	5,490	2.30
745	3800	1.86					7,270	3.15	7,010	3.30	6,710	3.15	6,400	3.00	6,050	2.85
785	4000	2.01					7,740	4.05	7,500	3.95	7,210	3.80	6,920	3.65	6,600	3.45
824	4200	2.27					8,200	4.75	7,970	4.6	7,720	4.45	7,460	4.3	7,160	4.15
862	4400	2.49					8,650	5.5	8,440	5.4	8,210	5.2	7,980	5.1	7,680	4.9
901	4600	2.72							8,880	6.2	8,700	6.0	8,440	5.9	8,200	5.7
941	4800	2.96							9,360	7.1	9,150	6.9	8,950	6.8	8,710	6.6
980	5000	3.21							9,800	8.0	9,620	7.9	9,440	7.8	9,200	7.6
1030	5250	3.54							10,400	9.3	10,200	9.2	10,000	9.1	9,800	8.9
1078	5500	3.89									10,800	10.5	10,600	10.5	10,400	10.5
1128	5750	4.25									11,300	12.5	11,200	12	10,900	12

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
588	3000	1.16	3,450	0.98												
627	3200	1.32	4,060	1.30	3,380	1.10										
666	3400	1.49	4,600	1.70	4,000	1.45										
705	3600	1.67	5,160	2.15	4,500	1.85	4,060	1.65								
745	3800	1.86	5,710	2.65	5,160	2.4	4,770	2.15	4,060	1.85						
785	4000	2.01	6,290	3.25	5,710	2.9	5,260	2.65	4,680	2.35	4,030	1.95				
824	4200	2.27	6,860	3.95	6,300	3.6	5,850	3.30	5,310	2.95	4,660	2.60				
862	4400	2.49	7,410	4.7	6,820	4.3	6,440	3.95	5,890	3.60	5,290	3.25				
901	4600	2.72	7,940	5.5	7,410	5.1	6,970	4.75	6,470	4.35	6,030	4.05	5,050	3.40		
941	4800	2.96	8,460	6.4	7,970	6.0	7,510	5.6	7,050	5.2	6,510	4.75	5,660	4.10		
980	5000	3.21	9,000	7.4	8,500	7.0	8,070	6.6	7,600	6.1	7,050	5.6	6,270	4.95	5,390	4.25
1030	5250	3.54	9,620	8.7	9,180	8.3	8,710	7.8	8,300	7.4	7,790	6.9	7,000	6.0	6,310	5.5
1078	5500	3.89	10,200	10.0	9,800	9.7	9,390	9.3	8,950	8.8	8,440	8.3	7,620	7.3	6,960	6.7
1128	5750	4.25	10,800	12.0	10,400	11.5	10,000	11.0	9,600	10.5	9,180	9.9	8,330	8.8	7,680	8.0
1177	6000	4.62	11,400	13.5	11,100	13.0	10,700	12.5	10,300	12.0	9,890	11.5	9,020	10.5	8,390	9.8
1225	6250	5.01	12,000	15.5	11,700	15.0	11,300	14.5	10,900	14.0	10,600	13.5	9,710	12.5	9,100	11.5
1275	6500	5.43	12,600	17.5	12,300	17.0	11,900	16.5	11,600	16.0	11,200	15.5	10,500	14.5	9,810	13.0
1323	6750	5.85	13,200	19.5	12,900	19.5	12,600	18.5	12,200	18.5	11,900	17.5	11,200	16.5	10,500	15.5
1372	7000	6.30	13,700	22	13,400	21.5	13,200	21.5	12,900	20.5	12,500	20	11,800	19.0	11,200	18
1471	7500	7.22			14,600	27	14,300	27	14,100	26	13,800	25	13,200	24.5	12,500	23
1569	8000	8.22			15,700	33	15,500	33	15,200	32	15,000	31	14,400	30	13,800	29
1668	8500	9.28					16,600	39	16,400	39	16,200	38	15,700	37	15,200	36
1764	9000	10.40					17,700	47	17,600	47	17,400	46	16,900	45	16,400	44
1862	9500	11.60							18,700	56	18,500	54	18,100	54	17,100	52
1960	10000	12.84									19,600	64	19,300	64	18,900	62

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1078	5500	3.89	6,140	5.9												
1128	5750	4.25	6,890	7.1	6,160	6.1										
1177	6000	4.62	7,620	8.6	6,920	7.2										
1225	6250	5.01	8,350	10.5	7,660	9.4										
1275	6500	5.43	9,000	12.0	8,510	11.0	7,160	9.6								
1323	6750	5.85	9,690	14.0	9,110	13.0	7,900	11.5								
1372	7000	6.30	10,400	16.5	9,840	15.5	8,630	13.5	7,300	11.5						
1471	7500	7.22	11,800	21.5	11,200	20	10,000	18	8,850	15.5	7,600	13.0				
1569	8000	8.22	13,200	28	12,600	26	11,400	23	10,300	20.5	9,280	18.5	8,070	15.5		
1668	8500	9.28	14,600	35	14,000	33	12,800	30	11,700	27	10,800	24.5	9,800	22.5	8,670	19.5
1764	9000	10.40	15,900	42	15,400	41	14,200	37	13,100	34	12,200	31	11,300	29	10,400	27
1862	9500	11.60	17,200	50	16,700	50	15,700	46	14,600	43	13,600	39	12,800	36	11,900	34
1960	10000	12.84	18,400	60	18,000	58	17,000	56	16,000	52	15,000	48	14,100	45	13,400	42

Double Inlet

No. 5 Multivane Fan — Design 3

Single Width

When Dischargeing Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
168	1000	0.1284	1,370	0.012												
202	1200	0.184	2,220	0.100												
235	1400	0.252	2,980	0.190												
269	1600	0.329	3,730	0.310	2,550	0.205										
302	1800	0.412	4,450	0.475	3,520	0.365	2,780	0.285								
336	2000	0.514	5,110	0.67	4,290	0.56	3,590	0.45	2,750	0.335						
370	2200	0.621	5,750	0.91	5,060	0.80	4,380	0.68	3,590	0.55						
404	2400	0.740	6,370	1.20	5,770	1.10	5,140	0.96	4,440	0.81	3,870	0.69				
437	2600	0.868	6,980	1.55	6,480	1.45	5,840	1.30	5,190	1.10	4,680	1.00	4,210	0.90		
470	2800	1.01			7,140	1.85	6,580	1.70	6,010	1.55	5,490	1.40	4,960	1.25	4,510	1.10
504	3000	1.16			7,760	2.30	7,310	2.15	6,730	2.00	6,250	1.80	5,650	1.60	5,290	1.50
538	3200	1.32			8,430	2.85	7,960	2.70	7,460	2.50	6,949	2.30	6,520	2.15	5,970	1.95
571	3400	1.49			9,060	3.45	8,600	3.25	8,200	3.10	7,720	2.90	7,260	2.70	6,780	2.5
605	3600	1.67			9,660	4.1	9,310	3.95	8,900	3.80	8,450	3.60	7,970	3.35	7,490	3.1
639	3800	1.86					9,910	4.7	9,560	4.54	9,150	4.35	8,730	4.10	8,250	3.9
672	4000	2.01					10,600	5.5	10,200	5.4	9,850	5.2	9,440	4.95	9,000	4.7
705	4200	2.27					11,200	6.5	10,900	6.3	10,500	6.1	10,200	5.9	9,760	5.7
740	4400	2.49					11,800	7.5	11,500	7.3	11,200	7.1	10,900	6.9	10,500	6.7
773	4600	2.72							12,100	8.4	11,900	8.2	11,500	8.0	11,200	7.8
807	4800	2.96							12,800	9.7	12,500	9.5	12,200	9.2	11,900	9.0
840	5000	3.21							13,400	11.0	13,100	11.0	12,900	10.5	12,600	10.5
882	5250	3.54							14,100	12.5	13,900	12.5	13,700	12.5	13,400	12
925	5500	3.89									14,700	14.5	14,400	14.5	14,100	14
966	5750	4.25									15,400	17	15,200	16.5	14,900	16

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs. per sq. inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
504	3000	1.16	4,710	1.35												
538	3200	1.32	5,540	1.80	4,620	1.50										
571	3400	1.49	6,280	2.30	5,460	2.00										
605	3600	1.67	7,040	2.90	6,150	2.55	5,560	2.25								
639	3800	1.86	7,800	3.65	7,040	3.25	6,500	2.95	5,540	2.5						
672	4000	2.01	8,580	4.45	7,790	3.95	7,190	3.6	6,370	3.2	5,500	2.70				
705	4200	2.27	9,360	5.4	8,600	4.9	7,980	4.5	7,240	4.0	6,350	3.55				
740	4400	2.49	10,100	6.4	9,310	5.8	8,780	5.4	8,010	4.9	7,210	4.4				
773	4600	2.72	10,800	7.5	10,100	7.0	9,510	6.5	8,830	5.9	8,220	5.5	6,890	4.6		
807	4800	2.96	11,500	8.7	10,900	8.2	10,200	7.6	9,610	7.1	8,880	6.5	7,720	5.6		
840	5000	3.21	12,300	10.0	11,600	9.5	11,000	8.9	10,400	8.4	9,610	7.6	8,550	6.7	7,350	5.8
882	5250	3.54	13,100	12.0	12,500	11.5	11,900	10.5	11,300	10.0	10,600	9.4	9,540	8.3	8,600	7.5
925	5500	3.89	14,000	14.0	13,400	13.5	12,800	12.5	12,200	12.0	11,500	11.5	10,400	10.0	9,490	9.0
966	5750	4.25	14,800	16.0	14,200	15.5	13,700	15.0	13,100	14.0	12,500	13.5	11,400	12.0	10,500	11.0
1009	6000	4.62	15,600	18.5	15,100	18.0	14,600	17.0	14,000	16.5	13,500	16.0	12,300	14.0	11,400	13.5
1050	6250	5.01	16,400	21.0	15,900	20.5	15,500	19.5	14,900	19	14,400	18.5	13,200	17.0	12,400	15.5
1092	6500	5.43	17,200	23.5	16,800	23	16,300	22.5	15,800	22	15,300	21	14,300	19.5	13,400	18.0
1134	6750	5.85	17,400	27	17,600	26	17,100	26	16,700	25	16,200	24	15,200	22.5	14,300	21.0
1177	7000	6.30	18,700	30	18,300	30	18,000	29	17,500	28	17,100	28	16,100	26	15,300	24.5
1260	7500	7.22			20,000	37	19,500	36	19,200	35	18,800	35	18,000	33	17,100	31
1344	8000	8.22			21,400	45	21,100	44	20,800	44	20,400	43	19,700	41	18,900	40
1430	8500	9.28					22,600	54	22,400	54	22,000	52	21,400	50	20,700	49
1511	9000	10.40					24,200	64	23,900	64	23,700	64	23,000	62	22,400	60
1598	9500	11.60							25,500	76	25,200	74	24,600	71	24,100	72
1680	10000	12.84									26,800	88	26,300	86	25,700	84

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
925	5500	3.89	8,380	8.0												
966	5750	4.25	9,390	9.6	8,400	8.8										
1009	6000	4.62	10,400	12.0	9,440	9.8										
1050	6250	5.01	11,400	14.0	10,400	13										
1092	6500	5.43	12,300	16.5	11,600	15	9,760	13.0								
1134	6750	5.85	13,200	19.0	12,400	18	10,800	15.5								
1177	7000	6.30	14,200	22.5	13,400	21	11,800	18.0	10,000	15.5						
1260	7500	7.22	16,100	29	15,300	27	13,700	21.5	12,100	21.5	10,100	18				
1344	8000	8.22	18,000	38	17,100	36	15,600	32	14,100	28	12,700	26	11,000	21.5		
1430	8500	9.28	19,900	47	19,100	45	17,500	41	16,000	37	14,700	33	13,300	30	11,800	26
1511	9000	10.40	21,700	58	20,900	56	19,400	52	17,900	46	16,700	43	15,400	39	14,200	36
1598	9500	11.60	23,500	70	22,800	68	21,400	64	19,900	58	18,500	54	17,400	50	16,300	46
1680	10000	12.84	25,100	82	24,500	80	23,200	76	21,800	70	20,400	66	19,200	62	18,200	58

Double Inlet

No. 6 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
147	1000	0.1284	1,790	0.055												
176	1200	0.185	2,900	0.130												
206	1400	0.252	3,880	0.215												
235	1600	0.329	4,870	0.41	3,330	0.270										
265	1800	0.412	5,800	0.62	4,590	0.475	3,630	0.37								
294	2000	0.514	6,680	0.87	5,600	0.73	4,680	0.59	3,580	0.435						
324	2200	0.621	7,500	1.20	6,000	1.05	5,710	0.88	4,690	0.71						
353	2400	0.740	8,320	1.55	7,520	1.4	6,700	1.25	5,800	1.05	5,050	0.90				
382	2600	0.868	9,100	2	8,450	1.9	7,620	1.70	6,760	1.45	6,100	1.30	5,500	1.15		
412	2800	1.01			9,300	2.4	8,580	2.20	7,850	2.00	7,160	1.85	6,490	1.60	5,900	1.45
441	3000	1.16			10,100	3.0	9,540	2.80	8,770	2.60	8,150	2.35	7,380	2.10	6,900	1.95
470	3200	1.32			11,000	3.7	10,400	3.50	9,740	3.25	9,040	3.00	8,510	2.80	7,790	2.55
500	3400	1.49			11,800	4.5	11,200	4.25	10,700	4.05	10,100	3.80	9,470	3.55	8,850	3.25
529	3600	1.67			12,600	5.4	12,100	5.2	11,600	4.95	11,000	4.65	10,400	4.4	9,770	4.1
559	3800	1.86					12,900	6.1	12,500	5.9	11,900	5.6	11,400	5.4	10,800	5.1
588	4000	2.01					13,800	7.2	13,300	7.0	12,800	6.7	12,300	6.5	11,800	6.1
618	4200	2.27					14,600	8.4	14,200	8.2	13,700	8.0	13,300	7.7	12,700	7.4
647	4400	2.49					15,400	9.8	15,000	9.6	14,600	9.3	14,200	9.0	13,700	8.7
676	4600	2.72							15,800	11.0	15,500	11.0	15,000	10.5	14,600	10.0
706	4800	2.96							16,700	12.5	16,300	12.5	15,900	12.0	15,500	12.0
735	5000	3.21							17,500	14.5	17,100	14.0	16,800	13.5	16,400	13.5
772	5250	3.54							18,400	16.5	18,100	16.5	17,800	16.0	17,500	16.0
809	5500	3.89									19,100	19	18,900	19.0	18,400	18.5
846	5750	4.25									20,100	22	19,900	21.5	19,500	21.0

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
441	3000	1.16	6,140	1.75												
470	3200	1.32	7,230	2.35	6,020	1.95										
500	3400	1.49	8,190	3.05	7,130	2.60										
529	3600	1.67	9,170	3.80	8,010	3.35	7,260	2.95								
559	3800	1.86	10,200	4.75	9,170	4.25	8,490	3.85	7,230	3.3						
588	4000	2.01	11,200	5.8	10,200	5.2	9,360	4.7	8,310	4.2	7,160	3.5				
618	4200	2.27	12,200	7.1	11,200	6.4	10,400	5.8	9,440	5.2	8,290	4.6				
647	4400	2.49	13,200	8.4	12,100	7.6	11,500	7.1	10,500	6.4	9,400	5.7				
676	4600	2.72	14,100	9.8	13,200	9.1	12,400	8.4	11,500	7.7	10,700	7.2	8,970	6.0		
706	4800	2.96	15,100	11.5	14,200	10.5	13,400	10.0	12,500	9.2	11,600	8.5	10,100	7.3		
735	5000	3.21	16,000	13.0	15,200	12.5	14,300	11.5	13,500	11.0	12,500	10.0	11,200	8.8	95,90	7.6
772	5250	3.54	17,100	15.5	16,300	14.5	15,500	14.0	14,800	13.0	13,900	12.0	12,400	11.0	11,200	9.8
809	5500	3.89	18,200	18	17,500	17.5	16,700	16.5	15,900	15.5	15,000	14.5	13,600	13.0	12,400	12.0
846	5750	4.25	19,300	21	18,600	20.0	17,900	19.5	17,100	18.5	16,300	17.5	14,700	15.5	13,700	14.0
882	6000	4.62	20,300	24	19,700	23.5	19,100	22.5	18,300	21.5	17,600	20.5	16,000	18.5	14,900	17.5
919	6250	5.01	21,400	27	20,600	27	20,200	26	19,500	25	18,800	24	17,300	22	16,200	20.0
955	6500	5.43	22,400	31	21,900	30	21,200	29	20,600	29	20,000	28	18,600	26	17,500	23.5
992	6750	5.85	23,400	35	22,900	34	22,300	38	21,800	33	21,100	32	19,800	30	18,700	27
1030	7000	6.30	24,400	39	23,900	39	23,400	38	22,900	37	22,300	36	21,000	34	19,900	32
1103	7500	7.22			26,000	48	25,500	47	25,000	46	24,500	45	23,400	43	22,300	41
1178	8000	8.22			28,000	58	27,600	58	27,100	58	26,700	56	25,700	54	24,600	52
1250	8500	9.28					29,600	70	29,200	70	28,800	68	27,900	66	27,000	64
1324	9000	10.40					31,500	84	31,200	84	30,900	82	30,100	80	29,200	78
1398	9500	11.60							33,300	98	32,900	98	32,100	96	31,400	92
1470	10000	12.84									34,900	115	34,200	115	33,500	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
809	5500	3.89	10,900	10.5												
846	5750	4.25	12,200	12.5	11,000	11.5										
882	6000	4.62	13,600	15.5	12,300	12.5										
919	6250	5.01	14,900	18.5	13,600	16.5										
955	6500	5.43	16,000	21.5	15,200	19.5	12,700	17.0								
992	6750	5.85	17,200	25	16,200	23.5	14,100	20.0								
1030	7000	6.30	18,500	29	17,500	27	15,400	23.5	13,100	20						
1103	7500	7.22	21,000	38	20,000	36	17,900	32	15,800	28	13,600	23.5				
1178	8000	8.22	23,500	49	22,400	47	20,300	41	18,400	37	16,500	33	14,400	28		
1250	8500	9.28	26,000	62	24,900	58	22,800	54	20,900	48	19,200	44	17,400	40	15,400	34
1324	9000	10.40	28,300	74	27,300	72	25,300	66	23,400	60	21,700	56	20,100	52	18,500	47
1398	9500	11.60	30,600	90	29,700	88	27,900	82	25,900	76	24,100	70	22,700	64	21,200	60
1470	10000	12.84	32,800	110	32,000	105	30,380	100	28,400	92	26,600	88	25,100	80	23,800	74

Double Inlet **Single Width**

No. 6½ Multivane Fan — Design 3

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
131	1000	0.1284	2,270	0.069												
157	1200	0.185	3,660	0.165												
183	1400	0.252	4,910	0.31												
209	1600	0.329	6,170	0.52	4,200	0.34										
235	1800	0.412	7,340	0.78	5,800	0.60	4,590	0.47								
262	2000	0.511	8,440	1.10	7,080	0.92	5,910	0.74	4,530	0.55						
288	2200	0.621	9,470	1.50	8,350	1.30	7,210	1.10	5,930	0.90						
314	2400	0.740	10,500	2.00	9,510	1.80	8,480	1.60	7,330	1.35	6,390	1.15				
340	2600	0.868	11,500	2.55	10,700	2.35	9,650	2.15	8,560	1.85	7,710	1.65	6,950	1.50		
366	2800	1.01			11,800	3.05	10,900	2.80	9,950	2.55	9,060	2.35	8,190	2.00	7,450	1.85
392	3000	1.16			12,800	3.80	12,100	3.55	11,100	3.25	10,300	3.0	9,340	2.65	8,730	2.45
418	3200	1.32			13,900	4.65	13,200	4.4	12,300	4.1	11,100	3.8	10,800	3.55	9,850	3.2
444	3400	1.49			14,900	5.7	14,200	5.4	13,500	5.1	12,700	4.8	12,000	4.5	11,200	4.1
470	3600	1.67			15,900	6.8	15,400	6.5	14,700	6.2	13,900	5.9	13,200	5.5	12,400	5.2
496	3800	1.86					16,400	7.7	15,800	7.5	15,100	7.1	14,400	6.8	13,600	6.4
523	4000	2.01					17,400	9.1	16,800	8.8	16,200	8.5	15,600	8.2	14,900	7.8
549	4200	2.27					18,500	10.5	17,900	10.5	17,400	10.0	16,800	9.7	16,100	9.3
575	4400	2.49					19,500	12.5	19,000	12	18,500	12.0	17,900	11.5	17,300	11
601	4600	2.72							20,000	14	19,600	13.5	19,000	13.0	18,500	13
627	4800	2.96							21,100	16	20,600	15.5	20,100	15.0	19,600	15
654	5000	3.21							22,100	18	21,600	18.0	21,200	17.5	20,700	17
686	5250	3.54							23,300	21	22,900	20.5	22,500	20.5	22,100	20
719	5500	3.89									24,200	24	23,800	23.5	23,300	23
751	5750	4.25									25,500	28	25,100	27	24,600	27

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
392	3000	1.16	7,760	2.20												
418	3200	1.32	9,150	2.95	7,610	2.45										
444	3400	1.49	10,300	3.85	9,010	3.3										
470	3600	1.67	11,600	4.8	10,100	4.2	9,190	3.75								
496	3800	1.86	12,900	6.0	11,600	5.3	10,700	4.9	9,150	4.15						
523	4000	2.01	14,200	7.4	12,900	6.5	11,900	5.9	10,500	5.4	9,050	4.4				
549	4200	2.27	15,400	8.9	14,200	8.1	13,200	7.4	11,900	6.6	10,500	5.8				
575	4400	2.49	16,700	10.5	15,400	9.6	14,500	8.9	13,200	8.1	11,900	7.3				
601	4600	2.72	17,900	12.5	16,700	11.5	15,700	10.5	14,600	9.8	13,600	9.1	11,300	7.6		
627	4800	2.96	19,100	14.5	18,000	13.5	16,900	12.5	15,900	11.5	14,700	10.5	12,700	9.3		
654	5000	3.21	20,200	16.5	19,200	15.5	18,200	14.5	17,100	14.0	15,900	12.5	14,100	11.0	12,100	9.6
686	5250	3.54	21,600	19.5	20,700	18.5	19,600	17.5	18,700	16.5	17,500	15.5	15,700	13.5	14,200	12.5
719	5500	3.89	23,000	23	22,100	22	21,100	21.0	20,100	20.0	19,000	18.5	17,200	16.5	15,600	15
751	5750	4.25	24,400	27	23,500	26	22,600	24.5	21,600	23.5	20,700	22	18,700	19.5	17,300	18
785	6000	4.62	25,700	30	24,900	29	24,100	28	23,100	27	22,200	26	20,300	23.5	18,900	22
816	6250	5.01	27,000	35	26,200	34	25,500	33	24,600	31	23,800	30	21,900	28	20,500	25
850	6500	5.43	28,300	39	27,600	38	26,800	37	26,100	36	25,200	35	23,500	32	22,100	30
882	6750	5.85	29,600	44	29,000	43	28,200	42	27,500	41	26,700	40	25,100	37	23,600	35
915	7000	6.30	30,800	49	30,200	49	29,700	48	28,900	47	28,200	45	26,600	43	25,200	40
980	7500	7.22			32,900	60	32,300	60	31,600	58	31,000	58	29,600	54	28,200	52
1047	8000	8.22			35,400	74	34,900	74	34,300	72	33,700	70	32,500	68	31,200	66
1111	8500	9.28					37,300	88	36,900	88	36,400	86	35,200	84	34,200	80
1177	9000	10.40					39,800	105	39,500	105	39,100	105	38,000	100	36,900	98
1242	9500	11.60							42,100	125	41,600	125	40,600	120	39,700	115
1308	10000	12.84									44,100	145	43,300	140	42,400	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.88 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
719	5500	3.89	13,800	13.0												
751	5750	4.25	15,500	16.0	13,900	14.5										
785	6000	4.62	17,200	19.5	15,600	16.0										
816	6250	5.01	18,800	23	17,200	21.0										
850	6500	5.43	20,200	27	19,200	24.5	16,100	21.5								
882	6750	5.85	21,800	32	20,500	29	17,800	26								
915	7000	6.30	23,400	37	22,100	34	19,400	30	16,600	26						
980	7500	7.22	26,600	48	25,300	45	22,600	40	19,900	35	17,200	30				
1047	8000	8.22	29,800	62	28,300	58	25,700	52	23,200	47	20,900	42	18,200	35		
1111	8500	9.28	32,800	78	31,500	74	28,800	68	26,400	60	24,200	56	22,000	50	19,500	43
1177	9000	10.40	35,800	94	34,600	92	32,000	84	29,600	76	27,500	70	25,500	66	23,400	60
1242	9500	11.60	38,700	115	37,500	110	35,300	105	32,700	96	30,500	88	28,700	82	26,800	76
1308	10000	12.84	41,400	135	40,400	135	38,300	125	36,000	115	33,700	110	31,700	100	30,000	94

Double Inlet **Single Width**

No. 7 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
117	1010	0.1284	2,800	0.085												
141	1200	0.185	4,520	0.205												
165	1400	0.252	6,060	0.385												
188	1600	0.329	7,600	0.64	5,190	0.42										
212	1800	0.412	9,050	0.96	7,160	0.74	5,660	0.58								
235	2000	0.514	10,400	1.35	8,730	1.15	7,300	0.92	5,590	0.68						
259	2200	0.621	11,700	1.85	10,300	1.65	8,910	1.40	7,310	1.10						
282	2400	0.740	13,000	2.45	11,700	2.20	10,500	1.95	9,040	1.65	7,880	1.40				
306	2600	0.868	14,200	3.15	13,200	2.95	11,900	2.65	10,600	2.30	9,530	2.05	8,570	1.80		
329	2800	1.01			14,500	3.75	13,400	3.45	12,300	3.10	11,200	2.85	10,100	2.50	9,200	2.25
353	3000	1.16			15,800	4.7	14,900	4.4	13,700	4.05	12,700	3.7	11,500	3.30	10,800	3.05
376	3200	1.32			17,200	5.8	16,200	5.5	15,200	5.1	14,100	4.7	13,300	4.35	12,200	4.0
400	3400	1.49			18,400	7.0	17,500	6.6	16,700	6.3	15,700	5.9	14,800	5.5	13,800	5.1
421	3600	1.67			19,700	8.4	19,000	8.1	18,000	7.7	17,200	7.3	16,200	6.8	15,300	6.4
447	3800	1.86					20,200	9.6	19,500	9.2	18,600	8.8	17,800	8.4	16,800	7.9
471	4000	2.01					21.500	11.5	20,800	11.0	20,000	10.5	19,200	10.0	18,300	9.6
494	4200	2.27					22,800	13	22,200	13.0	21,400	12.5	20,700	12.0	19,900	11.5
517	4400	2.49					24,000	15	23,400	15.0	22,800	14.5	22,100	14.0	21,300	13.5
541	4600	2.72							24,700	17.0	24,100	17.0	23,400	16.5	22,800	16.0
565	4800	2.96							26,000	19.5	25,400	19.5	24,800	19.0	24,200	18.5
588	5000	3.21							27,200	22.5	26,700	22	26,200	21.5	25,600	21.0
618	5250	3.54							28,700	26	28,300	26	27,800	25	27,200	24.5
647	5500	3.89									29,900	30	29,400	29	28,800	29
676	5750	4.25									31,400	34	31,000	34	30,400	33

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
353	3000	1.16	9,580	2.70												
376	3200	1.32	11,300	3.65	9,400	3.00										
400	3400	1.49	12,800	4.7	11,100	4.05										
424	3600	1.67	14,300	5.9	12,500	5.2	11,300	4.6								
447	3800	1.86	15,900	7.4	14,300	6.6	13,200	6.0	11,300	5.1						
471	4000	2.01	17,500	9.1	15,900	8.1	14,600	7.3	13,000	6.5	11,200	5.5				
494	4200	2.27	19,100	11.0	17,500	9.9	16,200	9.1	14,700	8.2	12,900	7.2				
517	4400	2.49	20,600	13.0	18,900	12.0	17,900	11.0	16,300	10.0	14,700	9.0				
541	4600	2.72	22,000	15.5	20,600	14.0	19,400	13.0	18,000	12.0	16,700	11.0	14,000	9.4		
565	4800	2.96	23,500	18.0	22,100	16.5	20,900	15.5	19,600	14.5	18,100	13.0	15,700	11.5		
588	5000	3.21	25,000	20.5	23,600	19.5	22,400	18	21,100	17.0	19,600	15.5	17,400	13.5	15,000	12.0
618	5250	3.54	26,700	24	25,500	23	24,200	22	23,000	20.5	21,600	19	19,400	17.0	17,500	15.5
647	5500	3.89	28,500	28	27,200	27	26,100	26	24,800	24.5	23,400	23	21,200	20.5	19,300	18.5
676	5750	4.25	30,100	33	29,000	31	27,900	30	26,700	29	25,500	27	23,100	24.5	21,300	22
706	6000	4.62	31,700	37	30,700	36	29,700	35	28,600	34	27,400	32	25,100	29	23,300	27
735	6250	5.01	33,400	43	32,400	41	31,500	40	30,400	39	29,400	37	27,000	34	25,200	31
765	6500	5.43	34,900	48	34,100	47	33,100	46	32,200	45	31,200	43	29,000	40	27,200	36
791	6750	5.85	36,500	54	35,700	54	34,800	52	34,000	50	33,000	49	31,000	46	29,200	43
824	7000	6.30	38,000	62	37,300	60	36,600	60	35,700	58	34,800	56	32,900	52	31,100	49
882	7500	7.22			40,600	74	39,800	74	39,000	72	38,200	70	36,600	68	34,800	64
941	8000	8.22			43,600	92	43,000	90	42,400	90	41,600	88	40,100	84	38,400	80
1000	8500	9.28					46,100	110	45,600	110	44,900	105	43,500	105	42,100	100
1059	9000	10.40					49,200	130	48,700	130	48,200	130	46,900	125	45,600	120
1118	9500	11.60							52,000	155	51,400	150	50,100	150	49,000	145
1177	10000	12.84									55,000	180	53,500	175	52,400	170

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
647	5500	3.89	17,100	16.5												
676	5750	4.25	19,100	19.5	17,100	18										
706	6000	4.62	21,200	24	19,200	20										
735	6250	5.01	23,200	28	21,300	26										
765	6500	5.43	25,000	34	23,600	30	19,900	27								
794	6750	5.85	26,900	39	25,800	36	22,000	32								
824	7000	6.30	28,800	45	27,300	42	23,900	37	20,500	31						
882	7500	7.22	32,800	60	31,200	56	27,900	50	24,600	43	21,300	37				
941	8000	8.22	36,700	76	34,900	72	31,700	64	28,700	58	25,800	52	22,400	44		
1000	8500	9.28	40,500	96	38,900	92	35,500	82	32,600	74	29,900	68	27,200	62	24,100	54
1059	9000	10.40	44,100	115	42,600	115	39,500	105	36,500	94	33,900	88	31,400	80	28,900	74
1118	9500	11.60	47,800	140	46,400	140	43,500	130	40,400	120	37,700	110	35,500	100	33,100	94
1177	10000	12.84	51,100	170	49,900	165	47,300	155	44,400	145	41,600	135	39,200	125	37,100	115

Double Inlet **Single Width**

No. 8 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
93	1000	0.1284	4,030	0.125												
118	1200	0.185	6,500	0.295												
137	1400	0.252	8,710	0.55												
157	1600	0.329	10,300	0.92	7,480	0.60										
177	1800	0.412	13,000	1.40	10,300	1.05	8,150	0.83								
196	2000	0.514	15,000	1.95	12,600	1.65	10,500	1.30	8,050	0.98						
216	2200	0.621	16,900	2.65	14,800	2.35	12,800	2.00	10,500	1.6						
235	2400	0.740	18,700	3.55	16,900	3.2	15,100	2.80	13,000	2.4	11,400	2.05				
255	2600	0.868	20,500	4.55	19,000	4.2	17,100	3.80	15,200	3.3	13,700	2.90	12,400	2.65		
275	2800	1.01			20,900	5.4	19,300	4.95	17,700	4.5	16,100	4.15	14,600	3.60	13,300	3.25
294	3000	1.16			22,800	6.8	21,400	6.3	19,700	5.8	18,300	5.3	16,600	4.75	15,500	4.4
314	3200	1.32			24,700	8.3	23,400	7.8	21,900	7.3	20,300	6.8	19,200	6.3	17,500	5.7
333	3400	1.49			26,600	10	25,200	9.6	24,000	9.1	22,600	8.6	21,300	8.0	19,900	7.3
353	3600	1.67			28,400	12	27,300	11.5	26,100	11.0	24,800	10.5	23,400	9.9	22,000	9.2
373	3800	1.86					29,100	14.0	28,100	13.5	26,900	12.5	25,600	12.0	24,200	11.5
392	4000	2.01					31,000	16.5	30,000	15.5	28,900	15	27,700	14.5	26,400	14.0
412	4200	2.27					32,800	19	31,900	18.5	30,900	18	29,800	17.0	28,600	16.5
431	4400	2.49					34,600	22	33,800	21.5	32,900	21	31,900	20.5	30,700	19.5
451	4600	2.72							35,500	24.5	34,800	24	33,800	23.5	32,800	23
471	4800	2.96							37,500	28	36,600	28	35,800	27	34,900	26
490	5000	3.21							39,200	32	38,500	32	37,700	31	36,800	30
515	5250	3.54							41,400	37	40,700	37	40,000	36	39,200	36
540	5500	3.89									43,000	43	42,400	42	41,500	41
564	5750	4.25									45,300	49	44,700	49	43,800	48

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
294	3000	1.16	13,800	3.9												
314	3200	1.32	16,300	5.2	13,500	4.35										
333	3400	1.49	18,400	6.8	16,000	5.8										
353	3600	1.67	20,600	8.5	18,000	7.5	16,300	6.7								
373	3800	1.86	22,900	10.5	20,600	9.5	19,100	8.7	16,300	7.4						
392	4000	2.01	25,200	13	22,800	11.5	21,100	10.5	18,700	9.4	16,100	7.9				
412	4200	2.27	27,500	16	25,200	14.5	23,400	13.0	21,200	12.0	18,600	10.5				
431	4400	2.49	29,700	19	27,300	17.0	25,800	16.0	23,500	14.5	21,200	13.0				
451	4600	2.72	31,800	22	29,700	20.5	27,900	19.0	25,900	17.5	24,100	16.0	20,200	13.5		
471	4800	2.96	33,800	26	31,900	24	30,100	22.5	28,200	20.5	26,100	19.0	22,600	16.5		
490	5000	3.21	36,000	29	34,000	28	32,300	26	30,400	24.5	28,200	22.5	25,100	19.5	21,600	17
515	5250	3.54	38,500	35	36,700	33	34,900	31	33,200	30	31,200	28	28,000	24	25,200	22
540	5500	3.89	41,000	41	39,200	39	37,600	37	35,800	35	33,800	33	30,500	29	27,800	26
564	5750	4.25	43,300	47	41,800	45	40,100	44	38,400	42	36,700	40	33,300	35	30,700	32
589	6000	4.62	45,600	54	44,200	52	42,900	50	41,200	49	39,500	47	36,100	42	33,600	39
613	6250	5.01	48,100	62	46,600	60	45,400	58	43,800	56	42,300	54	38,900	49	36,400	45
637	6500	5.43	50,300	70	49,100	68	47,600	66	46,400	64	44,900	62	41,800	58	39,300	52
662	6750	5.85	52,600	78	51,500	78	50,200	76	49,000	74	47,500	72	44,600	66	42,000	62
686	7000	6.30	54,900	88	53,800	86	52,600	86	51,400	82	50,100	80	47,400	76	44,800	72
735	7500	7.22			58,500	110	57,400	105	56,200	105	55,000	100	52,700	98	50,100	92
785	8000	8.22			62,900	130	62,000	130	61,000	130	60,000	125	57,800	120	55,400	115
831	8500	9.28					66,500	155	65,600	155	64,700	155	62,700	150	60,600	145
882	9000	10.40					70,900	190	70,300	185	69,500	185	67,600	180	65,600	175
931	9500	11.60							75,000	220	74,000	220	72,300	215	70,600	210
980	10000	12.84									78,500	260	77,000	255	75,500	245

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
540	5500	3.89	24,000	23.5												
564	5750	4.25	27,500	28	24,700	26										
589	6000	4.62	30,500	35	27,700	29										
613	6250	5.01	33,400	41	30,600	38										
637	6500	5.43	36,000	48	33,300	44	28,700	38								
662	6750	5.85	38,800	56	36,500	52	31,600	45								
686	7000	6.30	41,600	66	39,300	62	34,500	54	29,500	45						
735	7500	7.22	47,200	86	45,000	80	40,100	72	35,400	62	30,600	52				
785	8000	8.22	52,000	110	50,300	105	45,600	92	41,400	84	37,100	74	32,300	62		
834	8500	9.28	58,500	140	56,000	130	51,200	120	47,000	110	43,100	98	39,200	90	34,700	78
882	9000	10.40	63,600	170	61,500	165	56,900	150	52,600	135	48,900	125	45,300	115	41,600	105
931	9500	11.60	68,900	205	66,800	200	62,700	185	58,300	170	54,300	155	51,100	145	47,700	135
980	10000	12.84	73,600	240	71,900	235	68,100	225	64,000	210	59,900	195	56,400	180	53,400	170

Double Inlet

No. 9 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
84	1000	0.1284	5,180	0.165												
101	1200	0.185	8,860	0.405												
118	1400	0.252	11,900	0.75												
134	1600	0.329	14,900	1.25	10,200	0.82										
151	1800	0.412	17,800	1.90	14,000	1.45	11,100	1.15								
168	2000	0.511	20,400	2.70	17,100	2.20	14,300	1.8	11,000	1.35						
185	2200	0.621	22,900	3.65	20,200	3.20	17,500	2.7	14,300	2.20						
202	2400	0.740	25,500	4.8	23,000	4.35	20,500	3.8	17,700	3.25	15,500	2.75				
219	2600	0.808	27,900	6.2	25,900	5.7	23,300	5.1	20,700	4.45	18,700	4.0	16,800	3.55		
235	2800	1.01			28,500	7.3	26,300	6.7	24,000	6.1	21,900	5.6	19,800	4.9	18,000	4.45
252	3000	1.16			31,000	9.2	29,200	8.6	26,900	7.9	25,000	7.2	22,600	6.5	21,100	6.0
269	3200	1.32			33,600	11.5	31,800	10.5	29,800	10.0	27,700	9.2	26,100	8.6	23,800	7.8
286	3400	1.49			36,200	13.5	34,300	13.0	32,700	12.5	30,800	11.5	29,000	11.0	27,100	10.0
303	3600	1.67			38,600	16.5	37,200	16.0	35,600	15.0	33,700	14.5	31,800	13.5	29,900	12.5
319	3800	1.86					39,600	18.5	38,200	18.0	36,600	17.5	34,800	16.5	32,900	15.5
336	4000	2.01					42,100	22	40,700	21.5	39,300	20.5	37,700	20.0	36,000	19.0
353	4200	2.27					44,600	26	43,400	25	42,000	24.5	40,600	23.5	39,900	22.5
370	4400	2.49					47,100	30	46,000	29	44,700	28	43,400	28	41,800	27
387	4600	2.72							48,400	34	47,400	33	46,000	32	44,600	31
404	4800	2.96							51,000	39	49,800	38	48,700	37	47,500	36
420	5000	3.21							53,400	44	52,400	43	51,400	42	50,100	41
441	5250	3.54							56,300	50	55,400	50	54,500	49	53,400	48
462	5500	3.89									58,600	58	57,600	58	56,400	56
483	5750	4.25									61,600	66	60,800	66	59,500	64

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
252	3000	1.16	18,800	5.3												
269	3200	1.32	22,100	7.1	18,400	5.9										
286	3400	1.49	25,000	9.3	21,800	7.9										
303	3600	1.67	28,100	11.5	24,600	10.0	22,200	9.1								
319	3800	1.86	31,100	14.5	28,100	13.0	26,000	12.0	22,100	10.0						
336	4000	2.01	34,200	18.0	31,100	16.0	28,700	14.5	25,500	13.0	21,900	10.5				
353	4200	2.27	37,400	21.5	34,300	19.5	31,800	18.0	28,900	16.0	25,400	14.0				
370	4400	2.49	40,400	26	37,200	23.5	35,000	21.5	32,000	19.5	28,800	17.5				
387	4600	2.72	43,200	30	40,400	28	38,000	26	35,200	23.5	32,800	22	27,500	18.5		
404	4800	2.96	46,100	35	43,400	33	40,900	30	38,400	28	35,400	26	30,800	22.5		
420	5000	3.21	49,000	40	46,400	38	44,000	36	41,400	33	38,400	31	34,100	27	29,400	23
441	5250	3.54	52,400	47	50,000	45	47,600	43	45,100	40	42,400	38	38,100	33	34,300	30
462	5500	3.89	55,800	56	53,400	54	51,100	50	48,700	48	46,000	45	41,500	40	37,900	36
483	5750	4.25	59,000	64	56,900	62	54,600	60	52,300	56	50,000	54	45,400	48	41,800	44
505	6000	4.62	62,100	74	60,200	72	58,300	68	56,000	66	53,800	64	49,100	56	45,700	54
525	6250	5.01	65,100	84	63,500	82	61,700	78	59,600	76	57,600	74	52,900	66	49,500	62
546	6500	5.43	68,500	94	66,900	92	64,900	90	63,100	88	61,100	84	57,000	78	53,400	72
567	6750	5.85	71,600	105	70,000	105	68,300	100	66,600	100	64,600	96	60,700	90	57,200	84
589	7000	6.30	74,000	120	73,200	120	71,700	115	70,000	115	68,200	110	64,400	105	61,000	98
631	7500	7.22			79,000	145	78,000	145.	76,500	140	74,900	140	71,700	135	68,200	125
672	8000	8.22			85,500	180	84,300	175	83,000	175	81,600	170	78,600	165	75,400	160
715	8500	9.28					90,400	215	89,400	210	88,000	210	85,400	205	82,600	195
756	9000	10.40					96,400	255	96,600	255	94,600	250	92,000	245	89,400	240
799	9500	11.60							102,000	300	101,000	300	98,400	290	96,100	285
840	10000	12.84									107,000	350	105,000	345	103,000	335

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
462	5500	3.89	33,400	32												
483	5750	4.25	37,500	38	33,500	35										
505	6000	4.62	41,500	47	37,700	39										
525	6250	5.01	45,500	56	41,700	52										
546	6500	5.43	49,000	66	46,400	60	39,000	52								
567	6750	5.85	52,700	76	49,600	72	43,000	62								
589	7000	6.30	56,600	90	53,500	84	47,000	72	40,100	62						
631	7500	7.22	64,200	115	61,200	110	54,600	98	48,200	86	41,700	72				
672	8000	8.22	72,000	150	68,500	140	62,100	125	56,300	115	50,500	100	43,900	86		
715	8500	9.28	79,500	190	76,300	180	69,700	160	63,900	145	58,600	135	53,300	120	47,200	105
756	9000	10.40	86,600	230	83,800	220	77,400	205	71,600	185	66,500	170	61,600	160	56,500	145
799	9500	11.60	93,700	275	90,900	270	85,300	250	79,300	230	73,800	215	69,500	200	64,900	185
840	10000	12.84	100,000	330	97,900	320	92,700	305	87,100	285	81,500	265	76,800	245	72,700	230

Double Inlet

No. 10 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
73	1000	0.128	7,160	0.22												
88	1200	0.185	11,600	0.53												
103	1400	0.252	15,500	0.99												
118	1600	0.329	19,500	1.65	13,300	1.05										
132	1800	0.412	23,200	2.45	18,300	1.90	14,500	1.50								
147	2000	0.514	26,700	3.50	22,400	2.90	18,700	2.35	14,300	1.75						
162	2200	0.621	30,000	4.75	26,400	4.15	22,800	3.5	18,700	2.85						
176	2400	0.740	33,300	6.3	30,100	5.7	26,800	5.0	23,200	4.2	20,200	3.6				
191	2600	0.868	36,100	8.1	33,800	7.5	30,500	6.7	27,000	5.8	24,400	5.2	22,000	4.65		
206	2800	1.01			37,200	9.6	34,300	8.8	31,400	8.0	28,600	7.4	25,900	6.41	23,600	5.8
221	3000	1.16			40,500	12.0	38,100	11.5	35,100	10.5	32,600	9.5	29,500	8.4	27,600	7.8
235	3200	1.32			44,000	15.0	41,500	14.0	38,900	13.0	36,200	12.0	34,000	11.0	31,100	10.5
250	3400	1.49			47,200	18.0	44,900	17.0	42,700	16.0	40,200	15.0	37,900	14.0	35,400	13.0
265	3600	1.67			50,400	21.5	48,600	20.5	46,500	19.5	44,100	18.5	41,500	17.5	39,000	16.5
280	3800	1.86					51,700	24.5	49,900	23.5	47,800	22.5	45,500	21.5	43,000	20.0
294	4000	2.01					55,000	29	53,300	28	51,400	27	49,200	26	47,000	24.5
309	4200	2.27					58,400	34	56,700	33	54,900	32	53,100	31	50,900	30
324	4400	2.49					61,500	39	60,000	38	58,500	37	56,700	36	54,600	35
338	4600	2.72							63,200	44	61,900	43	60,000	42	58,400	41
353	4800	2.96							66,600	50	65,000	49	63,600	48	62,000	47
368	5000	3.21							69,800	58	68,500	56	67,100	51	65,500	54
386	5250	3.54							73,600	66	72,100	66	71,300	64	69,800	64
405	5500	3.89									76,500	76	75,300	71	73,800	74
423	5750	4.25									80,500	88	79,500	86	77,900	84

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
221	3000	1.16	21,500	7.0												
235	3200	1.32	28,900	9.3	24,100	7.8										
250	3400	1.49	32,700	12.0	28,500	10.5										
265	3600	1.67	36,700	15.0	32,100	13.5	29,000	12.0								
280	3800	1.86	40,600	19.0	36,700	17.0	33,900	15.5	28,900	13						
294	4000	2.01	44,800	23.5	40,600	20.5	37,500	19.0	33,300	17	28,600	14.0				
309	4200	2.27	48,800	28	44,900	25	41,500	23.5	37,800	21	33,100	18.5				
324	4400	2.49	52,800	34	48,500	30	45,800	28	41,800	26	37,600	23				
338	4600	2.72	56,500	39	52,800	36	49,600	34	46,000	31	42,900	29	35,900	24		
353	4800	2.96	60,100	46	56,700	43	53,400	40	50,100	37	46,300	34	40,300	29		
368	5000	3.21	64,000	52	60,500	50	57,400	47	54,100	44	50,100	40	44,600	35	38,300	30
386	5250	3.54	68,500	62	65,300	58	62,000	56	59,000	52	55,500	49	49,700	43	44,900	39
405	5500	3.89	72,900	72	69,800	70	66,800	66	63,600	62	60,000	58	54,300	52	49,500	47
423	5750	4.25	77,000	84	74,200	80	71,500	78	68,400	74	65,400	70	59,300	62	54,600	56
441	6000	4.62	81,100	96	78,600	92	76,100	90	73,300	86	70,400	82	64,100	74	59,700	70
460	6250	5.01	85,500	110	83,000	105	80,600	105	77,900	100	75,200	96	69,100	88	64,600	80
478	6500	5.43	89,500	125	87,400	120	84,800	120	82,500	115	79,900	110	74,500	100	69,800	94
496	6750	5.85	93,500	140	91,500	135	89,100	135	87,100	130	84,500	125	79,400	120	74,700	110
515	7000	6.30	97,500	155	95,600	155	93,600	150	91,500	145	89,100	145	84,100	135	79,600	125
552	7500	7.22			104,000	190	102,000	190	100,000	185	98,000	180	93,700	175	89,100	165
588	8000	8.22			112,000	235	110,000	230	109,000	230	107,000	225	103,000	215	98,500	205
625	8500	9.28					118,000	280	117,000	275	115,000	275	112,000	265	108,000	255
662	9000	10.40					126,000	335	125,000	330	124,000	330	120,000	320	117,000	310
699	9500	11.60							133,000	395	132,000	390	129,000	380	126,000	370
735	10000	12.84									140,000	460	137,000	450	134,000	440

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
405	5500	3.89	43,700	42												
423	5750	4.25	49,000	50	43,800	46										
441	6000	4.62	54,300	62	49,200	56										
460	6250	5.01	59,400	72	54,500	66										
478	6500	5.43	64,000	86	60,500	78	50,900	68								
496	6750	5.85	69,000	100	64,900	94	56,200	80								
515	7000	6.30	74,000	115	70,000	110	61,400	94	52,400	80						
552	7500	7.22	84,000	150	80,000	145	71,500	125	63,000	110	54,500	94				
588	8000	8.22	94,000	195	89,500	185	81,100	165	73,500	150	66,000	135	57,400	110		
625	8500	9.28	104,000	245	99,600	235	91,100	210	83,500	190	76,500	175	69,600	160	61,600	135
662	9000	10.40	113,000	300	109,000	290	101,000	265	93,500	240	87,000	225	80,500	205	73,900	190
699	9500	11.60	122,000	360	119,000	350	112,000	330	104,000	300	96,500	280	91,000	260	84,900	240
735	10000	12.84	131,000	430	128,000	420	121,000	395	114,000	370	107,000	345	100,000	320	95,000	300

Double Inlet # No. 11 Multivane Fan — Design 3 **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼″ Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜″ Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½″ Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝″ Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾″ Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞″ Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
65	1000	0.1284	9,080	0.275												
78	1200	0.185	11,700	0.67												
92	1400	0.252	19,700	1.25												
105	1600	0.329	24,700	2.05	16,800	1.35										
118	1800	0.412	29,400	3.10	23,200	2.4	18,400	1.90								
131	2000	0.514	33,800	4.45	28,300	3.7	23,700	2.95	18,100	2.2						
144	2200	0.621	37,900	6	33,400	5.3	28,900	4.45	23,700	3.6						
157	2400	0.740	42,100	8	38,100	7.2	33,900	6.3	29,300	5.3	25,500	4.55				
170	2600	0.868	46,100	10	42,700	9.5	38,600	8.5	34,200	7.4	30,900	6.6	27,800	5.9		
183	2800	1.01			47,100	12.0	43,400	11.0	39,700	10.0	36,200	9.3	32,800	8.1	29,800	7.4
196	3000	1.16			51,300	15.0	48,300	14.5	44,500	13.0	41,300	12.0	37,300	10.5	34,900	9.9
209	3200	1.32			55,600	18.5	52,000	17.5	49,300	16.5	45,700	15.0	43,100	14	39,400	13.0
222	3400	1.49			59,800	22.5	56,800	21.5	54,100	20.5	51,000	19.0	47,900	18	44,700	16.5
235	3600	1.67			63,800	27	61,500	26	58,800	25	55,800	23.5	52,600	22	49,400	20.5
248	3800	1.86					65,500	31	63,100	30	60,500	29	57,600	27	54,500	26
262	4000	2.01					69,600	37	67,500	35	65,000	34	62,300	33	59,400	31
275	4200	2.27					73,900	43	71,800	42	69,500	40	67,100	39	64,500	37
288	4400	2.49					77,900	49	76,000	48	74,000	47	71,800	46	69,000	44
301	4600	2.72							80,000	56	78,200	54	76,000	52	73,900	52
314	4800	2.96							84,300	61	82,300	62	80,500	60	78,500	60
327	5000	3.21							88,300	72	86,600	72	84,900	70	82,900	68
343	5250	3.54							93,100	84	91,600	82	90,100	82	88,300	80
360	5500	3.89									96,900	96	95,400	94	93,400	92
376	5750	4.25									102,000	110	100,000	110	98,500	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
196	3000	1.16	31,100	8.8												
209	3200	1.32	36,600	12.0	30,500	9.8										
222	3400	1.49	41,400	15.5	36,100	13.0										
235	3600	1.67	46,500	19	40,600	17.0	36,700	15.0								
248	3800	1.86	51,100	21	46,400	21.5	42,900	19.5	36,600	16.5						
262	4000	2.01	56,600	29	51,400	26	47,400	24	42,100	21	36,200	17.5				
275	4200	2.27	61,800	36	56,800	32	52,600	30	47,800	27	41,900	23.5				
288	4400	2.49	66,900	42	61,500	39	58,000	36	53,000	32	47,600	29				
301	4600	2.72	71,400	50	66,900	46	62,800	43	58,300	39	54,300	36	45,400	30		
314	4800	2.96	76,200	58	71,900	54	67,600	50	63,500	47	58,600	43	50,900	37		
327	5000	3.21	81,000	66	76,500	62	72,600	60	68,500	56	63,500	50	56,400	44	48,500	38
343	5250	3.54	86,500	78	82,600	74	78,500	70	74,600	66	70,100	62	63,000	54	56,800	49
360	5500	3.89	92,100	92	88,400	88	84,500	84	80,500	80	76,000	74	68,600	66	62,600	60
376	5750	4.25	97,500	105	94,000	100	90,500	98	86,500	94	82,600	88	75,000	78	69,100	72
392	6000	4.62	103,000	120	99,600	120	96,500	115	92,700	110	89,000	105	81,200	94	75,500	88
408	6250	5.01	108,000	140	105,000	135	102,000	130	98,500	125	95,200	120	87,500	110	81,800	100
425	6500	5.43	113,000	155	110,000	155	107,000	150	104,000	145	101,000	140	94,100	130	88,400	120
441	6750	5.85	118,000	175	116,000	175	113,000	170	110,000	165	107,000	160	100,000	150	94,500	140
458	7000	6.30	123,000	200	121,000	195	119,000	190	116,000	185	113,000	180	107,000	170	101,000	160
490	7500	7.22			132,000	245	129,000	240	127,000	235	124,000	230	119,000	220	113,000	205
523	8000	8.22			142,000	295	139,000	295	137,000	290	135,000	285	130,000	270	125,000	260
555	8500	9.28					149,000	350	148,000	350	146,000	345	141,000	335	137,000	325
588	9000	10.40					159,000	425	158,000	420	156,000	415	152,000	405	148,000	395
620	9500	11.60							169,000	500	167,000	495	163,000	480	159,000	470
654	10000	12.84									177,000	580	173,000	570	170,000	555

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
360	5500	3.89	55,300	52												
376	5750	4.25	61,900	64	55,400	58										
392	6000	4.62	68,600	78	62,300	64										
408	6250	5.01	75,100	92	68,900	84										
425	6500	5.43	81,000	110	76,600	98	64,500	86								
441	6750	5.85	87,200	125	82,000	120	71,100	100								
458	7000	6.30	93,500	145	88,500	140	77,600	120	66,300	100						
490	7500	7.22	106,000	195	101,000	180	90,400	160	79,700	140	68,900	120				
523	8000	8.22	119,000	250	113,000	235	103,000	210	93,000	185	83,500	170	72,600	140		
555	8500	9.28	131,000	310	126,000	300	115,000	270	106,000	245	96,900	220	78,100	200	78,000	175
588	9000	10.40	143,000	380	138,000	365	128,000	335	118,000	305	110,000	280	102,000	260	93,500	240
620	9500	11.60	155,000	455	150,000	445	141,000	415	131,000	380	122,000	350	115,000	330	107,000	305
654	10000	12.84	166,000	545	162,000	530	153,000	500	144,000	470	135,000	435	127,000	405	120,000	380

Double Inlet **Single Width**

No. 12 Multivane Fan — Design 3

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
59	1000	0.1284	11,200	0.41												
71	1200	0.185	18,400	0.82												
82	1400	0.252	21,300	1.55												
94	1600	0.329	30,400	2.55	20,800	1.70										
106	1800	0.412	36,200	3.85	28,600	2.95	22,700	2.30								
118	2000	0.514	41,600	5.5	31,900	4.55	29,200	3.65	22,400	2.75						
129	2200	0.621	46,800	7.4	41,200	6.5	35,600	5.5	29,300	4.15						
141	2400	0.740	51,900	9.8	47,000	8.9	41,800	7.8	36,200	6.6	31,500	5.6				
153	2600	0.868	56,900	12.5	52,700	11.5	47,600	10.5	42,200	9.1	38,100	8.1	34,300	7.3		
165	2800	1.01			58,100	15.0	53,500	14.0	49,000	12.5	44,700	11.5	40,500	10.0	36,800	9.1
177	3000	1.16			63,200	18.5	59,500	17.5	54,800	16.0	50,900	15	46,000	13.0	43,100	12.0
188	3200	1.32			68,600	23	64,900	22	60,800	20.5	56,500	19	53,100	17.5	48,600	16.0
200	3400	1.49			73,700	28	70,000	27	66,700	25	62,800	24	59,100	22	55,200	20.5
212	3600	1.67			78,700	34	75,800	32	72,500	31	68,800	29	64,900	27	61,000	25
224	3800	1.86					80,700	38	77,900	37	74,500	35	71,000	34	67,100	32
235	4000	2.01					86,000	45	83,200	44	80,100	42	76,900	40	73,300	38
247	4200	2.27					91,100	52	88,500	52	85,700	50	82,900	48	79,500	46
259	4400	2.49					96,000	60	93,600	60	91,200	58	88,500	56	85,200	54
271	4600	2.72							98,600	68	96,500	68	93,700	66	91,100	64
282	4800	2.96							104,000	78	102,000	78	99,400	76	96,800	74
294	5000	3.21							109,000	90	107,000	88	105,000	86	102,000	84
309	5250	3.54							115,000	105	113,000	100	111,000	100	109,000	98
324	5500	3.89									120,000	120	118,000	115	115,000	115
338	5750	4.25									126,000	135	124,000	135	122,000	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
177	3000	1.16	38,300	11.0												
188	3200	1.32	45,100	14.5	37,600	12										
200	3400	1.49	51,100	19.0	44,500	16										
212	3600	1.67	57,300	23.5	50,000	21	45,300	18.5								
224	3800	1.86	63,500	30	57,300	26	53,000	24	45,100	20.5						
235	4000	2.01	69,900	36	63,500	32	58,500	29	51,900	26	44,700	22				
247	4200	2.27	76,200	44	70,000	40	64,900	36	58,700	33	51,700	29				
259	4400	2.49	82,500	52	75,800	48	71,500	44	65,300	40	58,700	36				
271	4600	2.72	88,100	62	82,400	56	77,400	52	71,900	48	67,000	45	56,000	38		
282	4800	2.96	94,000	72	88,500	66	83,400	62	78,300	58	72,300	52	62,800	47		
294	5000	3.21	99,900	82	94,500	78	89,600	72	83,500	68	78,200	62	69,600	56	59,900	47
309	5250	3.54	107,000	96	102,000	92	96,800	88	92,000	82	86,500	76	77,600	68	70,000	62
324	5500	3.89	114,000	115	109,000	110	104,000	105	99,400	98	93,700	92	84,600	82	77,200	74
338	5750	4.25	120,000	130	116,000	125	112,000	120	107,000	115	102,000	110	92,500	98	85,200	88
353	6000	4.62	127,000	150	123,000	145	119,000	140	114,000	135	110,000	130	100,000	115	93,100	110
368	6250	5.01	133,000	170	130,000	165	126,000	160	122,000	155	117,000	150	108,000	135	101,000	125
382	6500	5.43	140,000	195	136,000	190	132,000	185	129,000	180	125,000	170	116,000	160	109,000	145
397	6750	5.85	146,000	220	143,000	215	139,000	210	136,000	205	132,000	195	124,000	185	117,000	170
412	7000	6.30	152,000	245	149,000	240	146,000	235	143,000	230	139,000	225	131,000	210	124,000	195
441	7500	7.22			163,000	300	159,000	295	156,000	290	153,000	280	146,000	270	139,000	255
471	8000	8.22			175,000	365	172,000	360	169,000	355	166,000	350	160,000	335	151,000	325
500	8500	9.28					184,000	435	182,000	430	180,000	425	174,000	415	169,000	400
530	9000	10.40					197,000	525	195,000	520	193,000	515	188,000	500	182,000	485
559	9500	11.60							208,000	615	206,000	610	201,000	595	196,000	585
588	10000	12.84									218,000	715	214,000	700	209,000	685

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
324	5500	3.89	68,200	66												
338	5750	4.25	76,100	78	68,400	72										
353	6000	4.62	84,600	96	76,900	80										
368	6250	5.01	92,600	115	85,000	105										
382	6500	5.43	99,900	135	91,500	120	79,500	105								
397	6750	5.85	108,000	155	101,000	145	87,800	130								
412	7000	6.30	115,000	180	109,000	170	95,700	150	81,700	125						
441	7500	7.22	131,000	240	125,000	225	112,000	200	98,400	175	85,000	145				
471	8000	8.22	147,000	305	140,000	290	127,000	260	115,000	230	103,000	210	89,600	175		
500	8500	9.28	162,000	385	155,000	370	142,000	330	130,000	300	120,000	270	109,000	245	96,300	215
530	9000	10.40	177,000	470	171,000	455	158,000	415	146,000	380	136,000	350	126,000	320	115,000	295
559	9500	11.60	191,000	565	185,000	550	174,000	515	162,000	470	151,000	435	142,000	405	132,000	375
588	10000	12.84	205,000	670	200,000	655	189,000	620	178,000	575	166,000	535	157,000	500	148,000	465

Double Inlet **Single Width**

No. 13 Multivane Fan — Design 3

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
53	1000	0.1284	13,600	0.415												
61	1200	0.185	21,900	1.00												
75	1400	0.252	29,400	1.85												
86	1600	0.329	36,900	3.10	25,200	2.05										
96	1800	0.412	41,000	4.65	31,800	3.6	27,500	2.80								
107	2000	0.514	50,500	6.6	42,400	5.5	35,500	4.45	27,200	3.3						
118	2200	0.621	56,700	9.0	50,000	7.9	43,300	6.7	35,500	5.4						
128	2400	0.740	63,000	12.0	57,000	11	50,800	9.5	43,900	8.0	38,300	6.8				
139	2600	0.868	69,000	15.5	61,000	14	57,800	13.0	51,200	11.0	46,300	9.8	41,600	8.9		
150	2800	1.01			70,500	18	65,000	16.5	59,500	15.0	54,300	14	49,000	12	44,600	11.0
160	3000	1.16			76,800	23	72,300	21.5	66,500	19.5	61,800	18	55,900	16	52,300	15.0
171	3200	1.32			83,300	28	78,700	26	73,700	24.5	68,500	23	64,500	21	59,000	19.5
182	3400	1.49			89,500	31	85,000	32	81,000	31	76,300	29	71,800	27	67,000	24.5
193	3600	1.67			95,500	41	92,000	39	88,000	37	83,500	35	78,800	33	74,000	31
203	3800	1.86					98,000	46	94,500	45	90,500	43	86,300	41	81,500	38
214	4000	2.01					104,000	54	101,000	54	97,300	52	93,300	49	89,000	46
225	4200	2.27					111,000	64	108,000	62	101,000	60	101,000	58	96,500	56
236	4400	2.49					117,000	74	114,000	72	111,000	70	108,000	68	104,000	66
246	4600	2.72							120,000	84	117,000	82	114,000	80	111,000	76
257	4800	2.96							126,000	96	123,000	94	121,000	92	118,000	90
268	5000	3.21							132,000	110	130,000	105	127,000	105	124,000	100
281	5250	3.54							140,000	125	137,000	125	135,000	125	132,000	120
294	5500	3.89									145,000	145	143,000	140	140,000	140
308	5750	4.25									153,000	165	151,000	165	148,000	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
160	3000	1.16	46,500	13.0												
171	3200	1.32	51,800	17.5	45,600	14.5										
182	3400	1.49	62,000	23	54,000	19.5										
193	3600	1.67	69,500	29	60,800	25	55,000	22.5								
203	3800	1.86	77,000	36	69,500	32	64,300	29	54,800	25						
214	4000	2.01	84,800	41	77,000	39	71,000	36	63,000	32	54,300	27				
225	4200	2.27	92,500	54	85,000	48	78,000	44	71,500	40	62,800	35				
236	4400	2.49	100,000	64	92,000	58	86,800	54	79,300	48	71,300	44				
246	4600	2.72	107,000	71	100,000	70	94,000	64	87,300	58	81,300	54	68,000	46		
257	4800	2.96	114,000	86	108,000	80	101,000	76	95,000	70	87,700	64	76,300	54		
268	5000	3.21	121,000	100	115,000	94	159,000	88	103,000	82	95,000	76	84,500	66	72,600	58
281	5250	3.54	130,000	115	124,000	110	118,000	105	112,000	100	105,000	92	94,300	82	85,000	74
294	5500	3.89	138,000	135	132,000	130	127,000	125	121,000	120	114,000	110	103,000	100	93,800	90
308	5750	4.25	146,000	160	141,000	155	135,000	145	130,000	140	124,000	135	112,000	120	104,000	110
321	6000	4.62	154,000	180	149,000	175	144,000	170	189,000	165	133,000	155	122,000	140	113,000	130
334	6250	5.01	162,000	210	157,000	200	153,000	195	148,000	190	143,000	180	131,000	165	123,000	150
348	6500	5.43	169,000	235	166,000	230	161,000	225	156,000	215	151,000	210	141,000	195	132,000	175
361	6750	5.85	177,000	265	174,000	260	169,000	250	165,000	245	160,000	240	150,000	225	142,000	210
374	7000	6.30	185,000	295	181,000	290	178,000	285	173,000	280	169,000	270	160,000	255	151,000	240
401	7500	7.22			197,000	365	193,000	355	190,000	350	186,000	345	178,000	330	169,000	310
428	8000	8.22			212,000	445	209,000	440	206,000	430	202,000	425	195,000	410	187,000	395
455	8500	9.28					224,000	530	221,000	525	218,000	520	211,000	505	204,000	485
481	9000	10.40					239,000	635	237,000	630	234,000	625	228,000	610	221,000	590
508	9500	11.60							253,000	745	249,000	740	244,000	725	238,000	705
535	10000	12.84									264,000	870	260,000	855	254,000	835

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
294	5500	3.89	82,800	80												
308	5750	4.25	92,800	96	83,000	86										
321	6000	4.62	103,000	115	93,300	96										
334	6250	5.01	113,000	140	103,000	125										
348	6500	5.43	121,000	165	115,000	150	96,500	130								
361	6750	5.85	131,000	190	123,000	175	107,000	155								
374	7000	6.30	140,000	220	133,000	205	116,000	180	99,300	155						
401	7500	7.22	159,000	290	152,000	270	135,000	240	119,000	210	103,000	180				
428	8000	8.22	178,000	370	170,000	355	154,000	315	139,000	280	125,000	255	109,000	210		
455	8500	9.28	197,000	465	189,000	445	173,000	400	158,000	365	145,000	330	132,000	300	117,000	260
481	9000	10.40	214,000	570	207,000	550	192,000	505	177,000	460	165,000	420	153,000	390	140,000	360
508	9500	11.60	232,000	685	225,000	670	211,000	625	196,000	575	183,000	530	172,000	490	161,000	460
535	10000	12.84	248,000	815	242,000	795	230,000	755	216,000	700	202,000	650	190,000	605	180,000	570

Double Inlet

No. 14 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
49	1000	0 1284	16,100	0 49												
59	1200	0 185	26,100	1 20												
69	1400	0 252	35,000	2 20												
78	1600	0 329	43,800	3 65	29,900	2 40										
88	1800	0 412	52,200	5 5	41,300	4 25	32,700	3 35								
98	2000	0 511	60,000	7 9	50,400	6 5	42,100	5.3	32,200	3 95						
105	2200	0 621	67,500	10 5	59,400	9 4	51,400	7 9	42,200	6 1						
118	2400	0 740	74,900	14	67,700	13 0	60,300	11	52,100	9 5	45,500	8 1				
128	2600	0 868	82,000	18	76,000	17 0	68,600	15	60,900	13	55,000	11 5	49,400	10 5		
137	2800	1 01			83,700	21 5	77,200	20	70,600	18	64,500	16 5	58,400	14 5	53,000	13 0
147	3000	1 16			91,100	27	85,900	25	79,000	23	73,400	21 5	66,400	19	62,100	17 5
157	3200	1 32			98,900	33	93,500	31	87,600	29	81,400	27	76,600	25	70,100	23
167	3400	1 49			106,000	40	101,000	38	96,200	36	90,600	34	85,200	32	79,600	29
177	3600	1 67			113,000	48	109,000	46	105,000	44	99,200	42	93,500	40	87,900	37
186	3800	1 86					116,000	56	112,000	54	108,000	50	103,000	48	96,800	46
196	4000	2 01					124,000	66	120,000	62	116,000	60	111,000	58	106,000	56
206	4200	2.27					131,000	76	128,000	74	124,000	72	120,000	68	115,000	66
216	4400	2 49					139,000	88	135,000	86	132,000	84	128,000	82	123,000	78
226	4600	2 72							142,000	98	139,000	96	135,000	94	131,000	92
235	4800	2 96							150,000	115	146,000	110	143,000	110	140,000	105
245	5000	3 21							157,000	130	154,000	125	151,000	125	147,000	120
257	5250	3 54							166,000	150	163,000	150	160,000	145	157,000	145
270	5500	3 89									172,000	170	170,000	170	166,000	165
282	5750	4 25									181,000	195	179,000	195	175,000	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
147	3000	1 16	55,200	15.5												
157	3200	1 32	65,000	21	54,200	17 5										
167	3400	1 49	73,600	27	64,100	23.5										
177	3600	1 67	82,500	34	72,100	30	65,400	27								
186	3800	1 86	91,500	43	82,500	38	76,400	35	65,000	30						
196	4000	2 01	101,000	52	91,500	47	84,300	43	74,800	38	64,500	31				
206	4200	2 27	110,000	64	101,000	58	93,500	52	84,900	47	74,500	42				
216	4400	2 49	119,000	76	109,000	68	103,000	64	94,100	58	84,600	52				
226	4600	2.72	127,000	88	119,000	82	112,000	76	104,000	70	96,500	64	80,800	54		
235	4800	2 96	136,000	105	128,000	96	120,000	90	113,000	82	104,000	76	90,600	66		
245	5000	3 21	144,000	120	136,000	110	129,000	105	122,000	98	113,000	90	100,000	78	86,300	68
257	5250	3 54	154,000	140	147,000	135	140,000	125	133,000	120	125,000	110	112,000	96	101,000	88
270	5500	3 89	164,000	165	157,000	155	150,000	150	143,000	140	135,000	130	122,000	120	111,000	105
282	5750	4 25	173,000	190	167,000	180	161,000	175	154,000	165	147,000	160	133,000	140	123,000	130
294	6000	4 62	183,000	215	177,000	210	171,000	200	165,000	195	158,000	185	144,000	165	134,000	155
306	6250	5.01	192,000	245	187,000	240	182,000	230	175,000	225	169,000	215	156,000	195	146,000	180
319	6500	5.43	201,000	280	197,000	270	191,000	265	186,000	255	180,000	250	168,000	230	157,000	210
331	6750	5.85	211,000	315	206,000	310	201,000	300	196,000	295	190,000	285	179,000	265	168,000	245
343	7000	6 30	219,000	350	215,000	345	211,000	340	206,000	330	201,000	325	189,000	305	179,000	285
368	7500	7 22			234,000	430	230,000	425	225,000	415	221,000	405	211,000	390	201,000	370
392	8000	8 22			252,000	530	248,000	520	244,000	515	240,000	505	231,000	485	222,000	465
416	8500	9 28					266,000	625	263,000	625	259,000	615	251,000	595	243,000	575
441	9000	10 40					284,000	755	281,000	750	278,000	740	271,000	720	263,000	700
465	9500	11 60							300,000	885	296,000	875	289,000	860	283,000	835
490	10000	12.84									314,000	1030	308,000	1010	302,000	990

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
270	5500	3 89	98,300	94												
282	5750	4 25	110,000	115	98,500	105										
294	6000	4 62	122,000	140	111,000	115										
306	6250	5 01	131,000	165	123,000	150										
319	6500	5 43	144,000	195	136,000	175	115,000	155								
331	6750	5 85	155,000	225	146,000	210	127,000	180								
343	7000	6 30	166,000	260	157,000	245	138,000	215	118,000	180						
368	7500	7 22	189,000	345	180,000	320	161,000	285	142,000	250	123,000	210				
392	8000	8 22	212,000	440	201,000	420	183,000	370	166,000	330	149,000	300	129,000	250		
416	8500	9 28	234,000	555	224,000	530	205,000	475	188,000	430	172,000	390	157,000	355	139,000	310
441	9000	10 40	255,000	675	246,000	655	227,000	600	211,000	545	196,000	500	181,000	465	166,000	425
465	9500	11 60	276,000	815	267,000	795	251,000	740	233,000	680	217 000	625	205,000	585	191,000	545
490	10000	12 84	295,000	970	288,000	945	273,000	895	256,000	830	240,000	770	226,000	720	214,000	675

Double Inlet

No. 15 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
45	1000	0.1284	18,900	0.58												
54	1200	0.185	30,500	1.4												
63	1400	0.252	40,900	2.6												
72	1600	0.329	51,100	4.3	35,100	2.8										
81	1800	0.412	61,100	6.5	48,300	5.0	38,300	3.9								
91	2000	0.514	70,400	9.2	59,000	7.7	49,300	6.2	37,800	4.6						
99	2200	0.621	79,000	12.5	69,600	11	60,100	9.3	49,400	7.5						
109	2400	0.740	87,700	16.5	79,400	15	70,600	13.0	61,100	11.0	53,200	9.5				
118	2600	0.868	96,000	21.5	89,100	20	80,500	17.5	71,400	15.5	64,400	13.5	58,000	12.5		
127	2800	1.01			98,200	25	90,500	23	82,800	21	75,500	19.5	68,400	17	62,100	15.5
136	3000	1.16			107,000	32	101,000	30	92,600	27	86,000	25	77,700	22	72,800	20.5
145	3200	1.32			116,000	39	110,000	37	103,000	34	95,400	32	89,800	30	82,100	27
154	3400	1.49			125,000	47	118,000	45	113,000	43	106,000	40	100,000	37	93,400	34
163	3600	1.67			133,000	56	128,000	54	123,000	52	116,000	49	110,000	46	103,000	43
172	3800	1.86					136,000	64	132,000	62	126,000	60	120,000	56	113,000	54
181	4000	2.01					145,000	76	141,000	74	135,000	70	130,000	68	124,000	64
190	4200	2.27					154,000	90	150,000	86	145,000	84	140,000	80	134,000	78
199	4400	2.49					162,000	105	158,000	100	154,000	98	150,000	94	144,000	92
208	4600	2.72							167,000	115	163,000	115	158,000	110	154,000	105
217	4800	2.96							176,000	135	172,000	130	168,000	125	164,000	125
226	5000	3.21							184,000	150	181,000	150	177,000	145	173,000	140
238	5250	3.54							194,000	175	191,000	175	188,000	170	184,000	165
249	5500	3.89									202,000	200	199,000	200	195,000	195
260	5750	4.25									212,000	230	210,000	230	205,000	225

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
136	3000	1.16	64,700	18.5												
145	3200	1.32	76,200	24.5	63,500	20.5										
154	3400	1.49	86,400	32	75,100	27										
163	3600	1.67	96,700	40	84,600	35	76,500	31								
172	3800	1.86	107,000	50	96,800	45	89,400	41	76,200	35						
181	4000	2.01	118,000	62	107,000	54	98,900	50	87,700	44	75,500	37				
190	4200	2.27	129,000	74	118,000	68	110,000	62	99,500	56	87,400	49				
199	4400	2.49	139,000	88	128,000	80	121,000	74	110,000	68	99,100	60				
208	4600	2.72	149,000	105	139,000	96	131,000	90	122,000	82	113,000	76	94,600	64		
217	4800	2.96	159,000	120	150,000	110	141,000	105	132,000	98	122,000	90	106,000	78		
226	5000	3.21	169,000	140	160,000	130	151,000	125	143,000	115	132,000	105	118,000	92	101,000	80
238	5250	3.54	181,000	165	172,000	155	164,000	145	156,000	140	146,000	130	131,000	115	118,000	105
249	5500	3.89	192,000	190	184,000	185	176,000	175	168,000	165	158,000	155	143,000	140	131,000	125
260	5750	4.25	203,000	220	196,000	215	188,000	205	180,000	195	172,000	185	156,000	165	144,000	150
272	6000	4.62	214,000	255	208,000	245	201,000	235	193,000	230	186,000	220	169,000	195	157,000	185
283	6250	5.01	226,000	290	219,000	280	213,000	270	205,000	260	198,000	250	182,000	230	171,000	210
294	6500	5.43	236,000	325	230,000	320	224,000	310	217,000	300	211,000	290	196,000	270	184,000	245
305	6750	5.85	247,000	370	241,000	360	235,000	350	280,000	345	223,000	335	209,000	310	197,000	290
317	7000	6.30	257,000	410	252,000	405	247,000	400	241,000	390	235,000	380	222,000	355	210,000	335
340	7500	7.22			275,000	505	269,000	495	264,000	490	258,000	475	247,000	455	235,000	430
362	8000	8.22			295,000	620	291,000	610	286,000	600	281,000	590	271,000	570	260,000	545
384	8500	9.28					312,000	735	308,000	730	303,000	720	294,000	700	285,000	675
407	9000	10.40					332,000	885	329,000	875	326,000	865	317,000	845	308,000	820
430	9500	11.60							352,000	1040	347,000	1030	339,000	1010	331,000	980
452	10000	12.84									368,000	1210	361,000	1190	354,000	1160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
249	5500	3.89	115,000	110												
260	5750	4.25	129,000	130	116,000	120										
272	6000	4.62	143,000	160	130,000	135										
283	6250	5.01	157,000	195	144,000	175										
294	6500	5.43	169,000	225	160,000	205	134,000	180								
305	6750	5.85	182,000	265	171,000	245	148,000	215								
317	7000	6.30	195,000	305	185,000	285	162,000	250	138,000	215						
340	7500	7.22	222,000	405	211,000	380	188,000	335	166,000	295	144,000	250				
362	8000	8.22	248,000	515	236,000	490	214,000	435	194,000	390	174,000	350	151,000	295		
384	8500	9.28	271,000	650	263,000	620	240,000	560	220,000	505	202,000	460	184,000	420	163,000	360
407	9000	10.40	298,000	790	288,000	765	267,000	700	247,000	640	229,000	590	212,000	545	195,000	500
430	9500	11.60	323,000	955	313,000	930	294,000	865	273,000	795	255,000	735	240,000	685	224,000	635
452	10000	12.84	345,000	1130	337,000	1110	320,000	1050	300,000	975	281,000	905	265,000	840	251,000	790

Double Inlet **Single Width**

No. 16 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
42	1000	0.1281	21,900	0.67												
50	1200	0.185	35,400	1.6												
59	1400	0.252	47,500	3.0												
67	1600	0.329	59,600	5.0	40,700	3.3										
76	1800	0.412	71,000	7.5	56,100	5.8	44,500	4.55								
84	2000	0.511	81,600	10.5	68,500	8.9	57,200	7.2	43,900	5.3						
93	2200	0.621	91,700	14.5	80,800	13.0	69,900	11.0	57,400	8.7						
101	2400	0.740	102,000	19.5	92,100	17.5	82,000	15.5	70,900	13.0	61,800	11.0				
109	2600	0.868	111,000	21.5	103,000	23	93,300	20.5	82,800	18.0	74,700	16.0	67,200	11.5		
118	2800	1.01			114,000	29	105,000	27	96,100	24.5	87,600	22.5	79,300	19.5	72,100	18
126	3000	1.16			124,000	37	117,000	34	107,000	32	99,800	29	90,200	26	84,500	24
134	3200	1.32			135,000	45	127,000	43	119,000	40	111,000	37	101,000	31	95,300	31
143	3400	1.49			145,000	54	137,000	52	131,000	49	123,000	17	116,000	43	108,000	40
151	3600	1.67			154,000	66	149,000	64	142,000	60	135,000	58	127,000	54	120,000	50
160	3800	1.86					158,000	74	153,000	72	146,000	70	139,000	66	132,000	62
168	4000	2.01					169,000	88	163,000	86	157,000	82	151,000	80	144,000	76
176	4200	2.27					179,000	105	174,000	100	168,000	98	162,000	94	156,000	90
185	4400	2.49					188,000	120	184,000	115	179,000	115	174,000	110	167,000	105
193	4600	2.72							193,000	135	189,000	130	184,000	130	179,000	125
202	4800	2.96							204,000	155	199,000	150	195,000	150	190,000	145
210	5000	3.21							214,000	175	210,000	170	205,000	170	200,000	165
220	5250	3.54							225,000	205	222,000	200	218,000	200	214,000	195
231	5500	3.89									234,000	230	231,000	230	226,000	225
242	5750	4.25									246,000	270	243,000	265	238,000	260

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
126	3000	1.16	75,100	21.5												
134	3200	1.32	88,500	29	73,700	23.5										
143	3400	1.49	100,000	37	87,300	32										
151	3600	1.67	112,000	46	98,100	41	88,900	36								
160	3800	1.86	125,000	58	112,000	52	104,000	47	88,500	40						
168	4000	2.01	137,000	72	124,000	64	115,000	58	102,000	52	87,600	43				
176	4200	2.27	150,000	86	137,000	78	127,000	72	116,000	64	101,000	56				
185	4400	2.49	162,000	105	149,000	94	140,000	86	128,000	78	115,000	70				
193	4600	2.72	173,000	120	162,000	110	152,000	105	141,000	94	131,000	88	110,000	74		
202	4800	2.96	185,000	140	174,000	130	164,000	120	154,000	115	142,000	105	123,000	90		
210	5000	3.21	196,000	160	186,000	150	176,000	145	166,000	135	154,000	120	137,000	105	117,000	92
220	5250	3.54	210,000	190	200,000	180	190,000	170	181,000	160	170,000	150	152,000	130	137,000	120
231	5500	3.89	223,000	220	214,000	210	205,000	205	195,000	190	184,000	180	166,000	160	152,000	145
242	5750	4.25	236,000	255	228,000	245	219,000	235	209,000	225	200,000	215	181,000	190	167,000	175
252	6000	4.62	249,000	295	241,000	285	233,000	275	224,000	265	215,000	255	197,000	225	183,000	215
263	6250	5.01	262,000	340	254,000	325	247,000	315	238,000	305	230,000	295	211,000	265	198,000	245
273	6500	5.43	274,000	380	268,000	370	260,000	360	252,000	350	244,000	310	228,000	315	213,000	285
284	6750	5.85	286,000	430	280,000	420	273,000	410	267,000	400	258,000	385	243,000	360	229,000	335
294	7000	6.30	298,000	480	293,000	470	287,000	465	280,000	450	273,000	440	258,000	415	241,000	390
315	7500	7.22			319,000	590	312,000	575	306,000	565	300,000	555	287,000	530	273,000	500
336	8000	8.22			342,000	720	337,000	710	332,000	700	326,000	685	315,000	660	302,000	635
357	8500	9.28					361,000	850	358,000	850	352,000	835	341,000	810	330,000	785
378	9000	10.40					386,000	1030	382,000	1020	378,000	1010	368,000	985	358,000	955
397	9500	11.60							408,000	1200	403,000	1190	393,000	1170	384,000	1140
420	10000	12.84									427,000	1400	419,000	1380	410,000	1350

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. pe q. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
231	5500	3.89	134,000	130												
242	5750	4.25	150,000	155	134,000	140										
252	6000	4.62	166,000	190	151,000	155										
263	6250	5.01	182,000	225	167,000	205										
273	6500	5.43	196,000	265	185,000	210	156,000	210								
284	6750	5.85	211,000	305	199,000	285	172,000	245								
294	7000	6.30	226,000	355	214,000	335	188,000	290	160,000	245						
315	7500	7.22	257,000	470	245,000	440	219,000	390	193,000	340	167,000	290				
336	8000	8.22	288,000	600	271,000	570	248,000	505	225,000	455	202,000	410	176,000	340		
357	8500	9.28	318,000	750	305,000	720	279,000	650	256,000	585	234,000	535	213,000	485	189,000	420
378	9000	10.40	346,000	915	331,000	890	310,000	815	286,000	740	266,000	680	246,000	630	226,000	580
397	9500	11.60	375,000	1110	364,000	1080	311,000	1010	317,000	925	296,000	855	278,000	795	260,000	745
420	10000	12.84	401,000	1320	391,000	1280	371,000	1220	348,000	1130	326,000	1050	307,000	980	291,000	915

Double Inlet

No. 17 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
39	1000	0.1284	25,200	0.77												
47	1200	0.185	40,700	1.85												
55	1400	0.252	54,600	3.45												
63	1600	0.329	68,500	5.7	46,800	3.8										
71	1800	0.412	81,500	8.7	64,500	6.7	51,000	5.2								
78	2000	0.514	93,600	12.5	78,600	10.0	65,700	8.3	50,400	6.1						
86	2200	0.621	105,000	16.5	92,800	14.5	80,200	12.5	65,900	10.0						
94	2400	0.740	117,000	22	106,000	20	94,100	17.5	81,400	15.0	71,000	12.5				
102	2600	0.868	128,000	28	119,000	26	107,000	23.5	95,000	20.5	85,900	18.5	77,100	16.5		
110	2800	1.01			131,000	34	121,000	31	110,000	28	101,000	26	91,000	22.5	82,900	20.5
118	3000	1.16			143,000	42	134,000	40	123,000	36	115,000	33	104,000	30	97,000	28
126	3200	1.32			155,000	52	146,000	49	137,000	46	127,000	42	120,000	39	109,000	36
133	3400	1.49			166,000	64	158,000	60	150,000	56	142,000	54	133,000	50	121,000	46
141	3600	1.67			177,000	76	171,000	72	163,000	70	155,000	66	146,000	62	137,000	58
149	3800	1.86					182,000	86	175,000	84	168,000	80	160,000	76	151,000	72
157	4000	2.01					194,000	100	187,000	98	181,000	94	173,000	90	165,000	86
165	4200	2.27					205,000	120	199,000	115	193,000	110	187,000	110	179,000	105
173	4400	2.49					216,000	135	211,000	135	206,000	130	199,000	125	192,000	120
181	4600	2.72							222,000	155	218,000	150	211,000	145	205,000	140
188	4800	2.96							234,000	175	229,000	175	224,000	170	218,000	165
196	5000	3.21							245,000	200	241,000	200	236,000	195	230,000	190
206	5250	3.54							259,000	235	255,000	230	251,000	225	245,000	225
216	5500	3.89									260,000	265	265,000	265	250,000	260
226	5750	4.25									283,000	310	270,000	305	274,000	295

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
118	3000	1.16	86,300	24.5												
126	3200	1.32	102,000	33	84,600	27										
133	3400	1.49	115,000	43	100,000	36										
141	3600	1.67	129,000	54	113,000	47	102,000	42								
149	3800	1.86	143,000	66	129,000	60	119,000	54	102,000	46						
157	4000	2.01	157,000	82	143,000	72	132,000	66	117,000	58	101,000	49				
165	4200	2.27	172,000	100	158,000	90	146,000	82	133,000	74	116,000	66				
173	4400	2.49	186,000	120	171,000	105	161,000	100	147,000	90	132,000	80				
181	4600	2.72	199,000	140	186,000	130	174,000	120	162,000	110	151,000	100	126,000	84		
188	4800	2.96	212,000	160	200,000	150	188,000	140	176,000	130	163,000	120	142,000	105		
196	5000	3.21	225,000	185	213,000	175	202,000	165	190,000	155	176,000	140	157,000	125	135,000	115
206	5250	3.54	241,000	215	230,000	205	218,000	195	208,000	185	195,000	170	175,000	150	158,000	135
216	5500	3.89	256,000	255	245,000	245	235,000	235	224,000	220	211,000	205	191,000	185	174,000	165
226	5750	4.25	271,000	295	261,000	285	251,000	270	240,000	260	229,000	245	208,000	220	192,000	200
235	6000	4.62	285,000	340	277,000	325	268,000	315	257,000	305	247,000	290	226,000	260	210,000	245
245	6250	5.01	301,000	385	292,000	375	284,000	360	274,000	350	265,000	335	243,000	305	227,000	285
255	6500	5.43	315,000	435	307,000	425	298,000	415	290,000	400	281,000	390	262,000	360	245,000	330
265	6750	5.85	329,000	490	322,000	485	314,000	470	306,000	460	297,000	445	279,000	415	263,000	385
274	7000	6.30	343,000	550	336,000	540	330,000	530	321,000	520	313,000	505	296,000	475	280,000	445
294	7500	7.22			366,000	675	359,000	665	352,000	650	344,000	635	329,000	610	313,000	575
314	8000	8.22			393,000	825	387,000	815	381,000	805	375,000	785	361,000	755	346,000	730
333	8500	9.28					415,000	980	411,000	975	404,000	960	392,000	935	379,000	900
353	9000	10.10					443,000	1180	439,000	1170	434,000	1160	423,000	1130	411,000	1090
372	9500	11.60							469,000	1380	463,000	1370	452,000	1340	441,000	1300
392	10000	12.84									490,000	1610	481,000	1580	472,000	1550

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
216	5500	3.89	154,000	145												
226	5750	4.25	172,000	175	154,000	160										
235	6000	4.62	191,000	215	173,000	180										
245	6250	5.01	200,000	255	192,000	235										
255	6500	5.43	225,000	300	213,000	275	170,000	240								
265	6750	5.85	242,000	350	228,000	330	198,000	285								
274	7000	6.30	260,000	410	246,000	380	216,000	335	184,000	285						
294	7500	7.22	295,000	540	281,000	505	251,000	445	221,000	390	192,000	330				
314	8000	8.22	331,000	690	314,000	655	285,000	580	259,000	520	232,000	470	202,000	395		
333	8500	9.28	365,000	865	350,000	830	320,000	745	294,000	675	269,000	615	245,000	555	217,000	480
353	9000	10.40	398,000	1050	384,000	1020	356,000	935	329,000	850	306,000	785	283,000	725	260,000	665
372	9500	11.60	430,000	1270	417,000	1240	392,000	1160	364,000	1060	339,000	980	320,000	915	298,000	850
392	10000	12.84	460,000	1510	449,000	1480	426,000	1400	400,000	1300	375,000	1210	353,000	1120	334,000	1050

Double Inlet

No. 18 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
37	1000	0.1284	28,700	0.87												
41	1200	0.185	46,400	2.10												
52	1400	0.252	62,000	3.95												
59	1600	0.329	77,900	6.5	53,100	4.3										
66	1800	0.416	92,800	9.9	73,400	7.6	58,000	5.9								
74	2000	0.514	107,000	14	89,400	11.5	74,800	9.4	57,300	7.0						
81	2200	0.621	120,000	19	106,000	16.5	91,300	14.0	75,000	11.5						
88	2400	0.740	133,000	25	120,000	23	107,000	20	92,600	17.0	80,800	14.5				
96	2600	0.868	146,000	32	135,000	30	122,000	27	108,000	23.5	97,700	21	87,800	18.5		
103	2800	1.01			149,000	38	137,000	35	126,000	32	115,000	29	104,000	26	94,200	23.5
110	3000	1.16			162,000	48	153,000	45	140,000	41	130,000	38	118,000	34	110,000	31
118	3200	1.32			176,000	60	166,000	56	156,000	52	145,000	48	136,000	45	125,000	41
125	3400	1.49			189,000	72	179,000	68	171,000	64	161,000	60	152,000	56	142,000	52
132	3600	1.67			202,000	86	194,000	82	186,000	78	176,000	74	166,000	70	156,000	66
140	3800	1.86					207,000	98	200,000	94	191,000	90	183,000	86	172,000	80
147	4000	2.01					220,000	115	213,000	110	205,000	110	197,000	105	188,000	98
154	4200	2.27					233,000	135	227,000	130	220,000	125	212,000	120	204,000	120
162	4400	2.49					246,000	155	240,000	155	231,000	150	227,000	145	218,000	140
169	4600	2.72							253,000	175	247,000	170	240,000	165	233,000	160
176	4800	2.96							267,000	200	260,000	195	255,000	195	248,000	190
184	5000	3.21							279,000	230	274,000	225	268,000	220	262,000	215
193	5250	3.54							294,000	265	290,000	260	285,000	260	279,000	255
202	5500	3.89									306,000	305	302,000	300	295,000	295
212	5750	4.25									322,000	350	318,000	345	312,000	340

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
110	3000	1.16	98,200	28												
118	3200	1.32	116,000	37	96,400	31										
125	3400	1.49	131,000	48	114,000	42										
132	3600	1.67	147,000	60	128,000	54	116,000	47								
140	3800	1.86	163,000	76	147,000	68	136,000	62	116,000	52						
147	4000	2.01	179,000	94	103,000	82	150,000	76	133,000	68	115,000	56				
154	4200	2.27	195,000	115	179,000	100	166,000	94	151,000	84	133,000	74				
162	4400	2.49	211,000	135	194,000	120	183,000	115	167,000	100	150,000	92				
169	4600	2.72	226,000	155	211,000	145	198,000	135	184,000	125	172,000	115	144,000	96		
176	4800	2.96	241,000	180	227,000	170	214,000	160	201,000	145	185,000	135	161,000	115		
184	5000	3.21	256,000	210	242,000	200	229,000	185	216,000	175	201,000	160	179,000	140	153,900	120
193	5250	3.54	274,000	245	262,000	235	248,000	225	236,000	210	222,000	195	199,000	170	180,000	155
202	5500	3.89	292,000	290	279,000	275	267,000	265	255,000	250	240,000	235	217,000	210	198,000	190
212	5750	4.25	308,000	335	297,000	325	286,000	310	273,000	295	261,000	280	237,000	250	219,000	225
221	6000	4.62	325,000	385	315,000	370	305,000	360	293,000	345	281,000	330	257,000	295	239,000	280
230	6250	5.01	342,000	440	332,000	425	323,000	410	311,000	395	301,000	385	277,000	350	259,000	320
239	6500	5.43	358,000	495	350,000	485	340,000	470	330,000	455	319,000	440	298,000	410	279,000	375
248	6750	5.85	374,000	560	366,000	550	357,000	535	348,000	520	338,000	505	317,000	475	299,000	410
257	7000	6.30	390,000	625	383,000	615	374,000	605	366,000	590	350,000	575	337,000	510	319,000	505
276	7500	7.22			416,000	770	408,000	755	400,000	740	392,000	725	375,000	690	356,000	655
294	8000	8.22			448,000	940	440,000	925	434,000	915	426,000	895	411,000	860	394,000	830
312	8500	9.28					472,000	1110	467,000	1110	460,000	1090	446,000	1060	432,000	1020
331	9000	10.40					504,000	1340	500,000	1330	494,000	1320	481,000	1280	467,000	1250
349	9500	11.60							533,000	1570	526,000	1560	511,000	1530	502,000	1480
368	10000	12.84									558,000	1830	547,000	1800	536,000	1760

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
202	5500	3.89	175,000	165												
212	5750	4.25	196,000	200	175,000	185										
221	6000	4.62	217,000	245	197,000	205										
230	6250	5.01	238,000	290	218,000	270										
239	6500	5.43	256,000	345	242,000	310	204,000	270								
248	6750	5.85	276,000	400	259,000	375	225,000	325								
257	7000	6.30	296,000	465	280,000	435	245,000	380	210,000	325						
276	7500	7.22	336,000	610	320,000	575	286,000	510	252,000	445	218,000	375				
294	8000	8.22	376,000	785	358,000	745	325,000	660	294,000	590	264,000	535	230,000	445		
312	8500	9.28	416,000	985	399,000	940	364,000	850	334,000	765	306,000	695	279,000	635	217,000	550
331	9000	10.40	453,000	1200	437,000	1160	405,000	1060	374,000	970	348,000	890	322,000	825	296,000	755
349	9500	11.60	490,000	1450	475,000	1410	446,000	1320	414,000	1210	386,000	1110	364,000	1040	339,000	965
368	10000	12.84	524,000	1720	511,000	1680	485,000	1590	455,000	1480	426,000	1370	401,000	1280	380,000	1200

Double Inlet

No. 20 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
33	1000	0.128	36,200	1.10												
39	1200	0.185	58,600	2.65												
46	1400	0.252	78,500	5.0												
52	1600	0.329	98,500	8.3	67,400	5.4										
59	1800	0.412	117,000	12.5	92,800	9.6	73,500	7.5								
65	2000	0.514	135,000	17.5	113,000	14.5	94,700	12	72,500	8.8						
72	2200	0.621	152,000	24	134,000	21	116,000	18	94,900	14.5						
78	2400	0.740	168,000	32	152,000	29	136,000	25	117,000	21.5	102,000	18				
85	2600	0.868	184,000	41	171,000	38	154,000	34	137,000	30	124,000	26	111,000	23.5		
92	2800	1.01			188,000	49	174,000	45	159,000	40	145,000	37	131,000	32	119,000	29
98	3000	1.16			205,000	60	193,000	56	178,000	52	165,000	48	149,000	43	140,000	40
105	3200	1.32			222,000	74	210,000	70	197,000	66	183,000	60	172,000	56	158,000	52
111	3400	1.49			239,000	90	227,000	86	216,000	82	204,000	76	192,000	72	179,000	66
118	3600	1.67			255,000	110	246,000	105	235,000	100	223,000	94	210,000	88	198,000	82
124	3800	1.86					262,000	125	252,000	120	242,000	115	230,000	110	218,000	100
131	4000	2.01					279,000	145	270,000	140	260,000	135	249,000	130	238,000	125
137	4200	2.27					295,000	170	287,000	165	278,000	160	269,000	155	258,000	150
144	4400	2.49					312,000	200	304,000	195	296,000	190	287,000	180	276,000	175
150	4600	2.72							320,000	220	313,000	220	304,000	210	296,000	205
157	4800	2.96							337,000	255	329,000	250	322,000	245	314,000	240
163	5000	3.21							353,000	290	347,000	285	340,000	280	331,000	270
172	5250	3.54							373,000	335	366,000	330	361,000	325	353,000	320
180	5500	3.89									387,000	385	382,000	380	373,000	370
188	5750	4.25									407,000	445	402,000	435	394,000	425

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
98	3000	1.16	124,000	35												
105	3200	1.32	146,000	47	122,000	39										
111	3400	1.49	166,000	62	144,000	52										
118	3600	1.67	186,000	76	162,000	68	147,000	60								
124	3800	1.86	206,000	96	186,000	86	172,000	78	146,000	66						
131	4000	2.01	226,000	120	206,000	105	190,000	96	168,000	84	145,000	70				
137	4200	2.27	247,000	145	227,000	130	210,000	120	191,000	105	168,000	94				
144	4400	2.49	267,000	170	246,000	155	232,000	145	212,000	130	190,000	115				
150	4600	2.72	286,000	200	267,000	185	251,000	170	233,000	155	217,000	145	182,000	120		
157	4800	2.96	305,000	230	287,000	215	270,000	200	254,000	185	234,000	170	204,000	150		
163	5000	3.21	324,000	265	306,000	250	291,000	235	274,000	220	254,000	200	226,000	180	194,000	155
172	5250	3.54	346,000	310	331,000	300	314,000	280	299,000	265	281,000	250	252,000	220	227,000	200
180	5500	3.89	369,000	365	353,000	350	338,000	335	322,000	315	304,000	295	274,000	265	250,000	240
188	5750	4.25	390,000	425	376,000	410	362,000	390	346,000	375	331,000	355	300,000	315	276,000	290
196	6000	4.62	411,000	485	398,000	470	386,000	455	371,000	435	356,000	420	325,000	375	302,000	355
201	6250	5.01	432,000	555	420,000	540	408,000	520	394,000	500	381,000	485	350,000	440	327,000	405
212	6500	5.43	452,000	625	442,000	615	429,000	595	417,000	580	404,000	560	376,000	520	353,000	475
222	6750	5.85	473,000	710	463,000	695	451,000	675	441,000	660	427,000	640	402,000	600	378,000	555
229	7000	6.30	494,000	790	484,000	780	475,000	765	463,000	745	451,000	725	428,000	685	403,000	640
245	7500	7.22			526,000	970	516,000	955	506,000	935	495,000	915	474,000	875	451,000	830
262	8000	8.22			565,000	1190	558,000	1170	549,000	1150	540,000	1130	520,000	1090	499,000	1050
278	8500	9.28					597,000	1410	591,000	1400	581,000	1380	565,000	1340	546,000	1300
294	9000	10.40					638,000	1700	632,000	1680	625,000	1660	609,000	1620	591,000	1580
310	9500	11.60							675,000	1990	666,000	1970	650,000	1950	635,000	1880
327	10000	12.84									706,000	2320	693,000	2280	679,000	2220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
180	5500	3.89	221,000	210												
188	5750	4.25	248,000	255	222,000	230										
196	6000	4.62	275,000	310	249,000	280										
204	6250	5.01	300,000	370	276,000	340										
212	6500	5.43	324,000	435	307,000	395	258,000	345								
222	6750	5.85	349,000	505	328,000	470	285,000	410								
229	7000	6.30	374,000	590	354,000	550	311,000	480	265,000	410						
245	7500	7.22	425,000	775	405,000	725	362,000	645	319,000	565	276,000	475				
262	8000	8.22	476,000	990	453,000	940	411,000	835	372,000	750	334,000	675	291,000	565		
278	8500	9.28	526,000	1240	504,000	1190	461,000	1070	423,000	970	387,000	880	353,000	800	312,000	695
294	9000	10.40	572,000	1520	553,000	1470	512,000	1350	474,000	1230	440,000	1130	407,000	1040	374,000	955
310	9500	11.60	620,000	1830	601,000	1780	565,000	1660	524,000	1530	488,000	1410	460,000	1310	430,000	1220
327	10000	12.84	662,000	2180	647,000	2120	614,000	2010	576,000	1870	539,000	1740	508,000	1620	481,000	1520

Double Inlet

No. 22 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressur ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P
29	1000	0.128	44,800	1.35												
35	1200	0.185	72,400	3.3												
41	1400	0.252	97,000	6.2												
47	1600	0.329	122,000	10.0	83,100	6.7										
53	1800	0.412	145,000	15.5	115,000	12	90,700	9.3								
59	2000	0.514	167,000	22	140,000	18	117,000	14.5	89,500	11						
65	2200	0.621	187,000	30	165,000	26	143,000	22	117,000	18						
71	2400	0.740	208,000	39	188,000	36	168,000	31	145,000	26	126,000	22.5				
77	2600	0.868	228,000	50	211,000	47	191,000	42	169,000	37	153,000	33	137,000	29		
82	2800	1.01			233,000	60	214,000	56	196,000	50	179,000	46	162,000	40	147,000	36
88	3000	1.16			253,000	76	239,000	70	220,000	64	204,000	60	184,000	52	173,000	49
94	3200	1.32			275,000	92	260,000	88	243,000	82	226,000	76	213,000	70	195,000	64
100	3400	1.49			295,000	110	281,000	105	267,000	100	252,000	96	237,000	88	221,000	82
106	3600	1.67			315,000	135	304,000	130	290,000	125	276,000	115	260,000	110	244,000	100
112	3800	1.86					323,000	155	312,000	150	299,000	140	285,000	135	269,000	125
118	4000	2.01					344,000	180	333,000	175	321,000	170	308,000	160	294,000	155
124	4200	2.27					365,000	210	355,000	205	344,000	200	332,000	190	318,000	185
129	4400	2.49					385,000	245	375,000	240	366,000	235	355,000	225	342,000	215
135	4600	2.72							395,000	275	387,000	270	375,000	260	365,000	255
141	4800	2.96							416,000	315	406,000	310	398,000	300	388,000	295
147	5000	3.21							436,000	355	428,000	350	419,000	345	410,000	335
154	5250	3.54							460,000	415	453,000	410	446,000	405	436,000	395
162	5500	3.89									479,000	475	471,000	470	461,000	460
169	5750	4.25									501,000	545	497,000	510	486,000	530

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
88	3000	1.16	154,000	44												
94	3200	1.32	181,000	58	151,000	48										
100	3400	1.49	205,000	76	178,000	64										
106	3600	1.67	229,000	94	200,000	84	182,000	74								
112	3800	1.86	254,000	120	229,000	105	212,000	96	181,000	82						
118	4000	2.01	280,000	145	254,000	130	234,000	120	208,000	105	179,000	88				
124	4200	2.27	305,000	175	281,000	160	260,000	145	236,000	130	207,000	115				
129	4400	2.49	330,000	210	304,000	190	287,000	175	261,000	160	235,000	145				
135	4600	2.72	353,000	245	330,000	230	310,000	210	288,000	195	268,000	180	224,000	150		
141	4800	2.96	377,000	285	355,000	265	334,000	250	313,000	230	290,000	210	251,000	185		
147	5000	3.21	400,000	330	378,000	310	359,000	290	338,000	275	313,000	250	279,000	220	240,000	190
154	5250	3.54	428,000	385	408,000	370	388,000	350	369,000	330	346,000	305	311,000	270	280,000	245
162	5500	3.89	455,000	455	436,000	435	418,000	415	398,000	390	375,000	365	339,000	325	309,000	295
169	5750	4.25	481,000	525	465,000	505	446,000	485	427,000	465	408,000	440	370,000	390	341,000	355
176	6000	4.62	507,000	600	492,000	580	476,000	560	458,000	540	440,000	515	401,000	465	373,000	435
184	6250	5.01	535,000	685	519,000	665	505,000	645	487,000	620	470,000	600	432,000	545	404,000	500
191	6500	5.43	560,000	775	546,000	755	530,000	735	516,000	715	499,000	690	465,000	640	436,000	585
198	6750	5.85	585,000	875	572,000	860	559,000	835	544,000	815	528,000	790	496,000	740	467,000	685
206	7000	6.30	610,000	980	598,000	965	586,000	945	571,000	920	556,000	895	526,000	850	498,000	790
221	7500	7.22			650,000	1200	638,000	1180	625,000	1160	612,000	1130	585,000	1080	556,000	1030
235	8000	8.22			700,000	1470	689,000	1450	678,000	1430	666,000	1400	642,000	1350	616,000	1300
250	8500	9.28					739,000	1740	730,000	1730	719,000	1710	697,000	1660	675,000	1600
265	9000	10.40					788,000	2100	780,000	2080	773,000	2050	752,000	2000	730,000	1950
279	9500	11.60							833,000	2460	823,000	2430	803,000	2380	785,000	2320
294	10000	12.84									871,000	2860	856,000	2810	839,000	2750

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
162	5500	3.89	273,000	260												
169	5750	4.25	306,000	315	274,000	285										
176	6000	4.62	339,000	385	308,000	320										
184	6250	5.01	371,000	455	341,000	420										
191	6500	5.43	400,000	535	379,000	485	318,000	425								
198	6750	5.85	431,000	625	405,000	580	352,000	505								
206	7000	6.30	462,000	730	437,000	680	383,000	595	327,000	505						
221	7500	7.22	525,000	955	500,000	895	447,000	795	394,000	695	341,000	590				
235	8000	8.22	588,000	1230	559,000	1160	507,000	1030	460,000	925	413,000	835	359,000	700		
250	8500	9.28	650,000	1540	623,000	1470	569,000	1330	522,000	1200	478,000	1090	435,000	990	386,000	855
265	9000	10.40	707,000	1870	683,000	1810	632,000	1660	585,000	1510	544,000	1390	503,000	1290	462,000	1180
279	9500	11.60	766,000	2260	742,000	2200	697,000	2050	648,000	1890	603,000	1740	568,000	1620	530,000	1510
294	10000	12.84	819,000	2690	790,000	2620	758,000	2480	711,000	2310	666,000	2150	627,000	2000	594,000	1870

Double Inlet

No. 24 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
27	1000	0.1281	54,100	1.7												
32	1200	0.185	87,500	4.0												
37	1400	0.252	117,000	7.5												
43	1600	0.329	147,000	12.5	101,000	8										
48	1800	0.412	175,000	18.5	139,000	15	110,000	11								
52	2000	0.514	202,000	26	169,000	22	141,000	18	108,000	13						
59	2200	0.621	227,000	36	200,000	32	173,000	27	142,000	22						
64	2400	0.740	252,000	48	228,000	43	203,000	38	175,000	32	153,000	27				
70	2600	0.868	276,000	60	255,000	56	231,000	50	205,000	44	185,000	39	166,000	35		
75	2800	1.01			281,000	72	260,000	66	238,000	60	216,000	56	196,000	48	178,000	44
80	3000	1.16			306,000	90	288,000	86	265,000	78	246,000	72	223,000	64	209,000	60
86	3200	1.32			332,000	110	314,000	105	294,000	98	273,000	90	257,000	84	235,000	76
91	3400	1.49			357,000	135	339,000	130	323,000	120	304,000	115	286,000	105	267,000	98
96	3600	1.67			381,000	165	367,000	155	351,000	150	333,000	140	314,000	135	295,000	125
102	3800	1.86					391,000	185	377,000	180	361,000	170	344,000	160	325,000	155
107	4000	2.01					416,000	220	403,000	210	388,000	205	372,000	195	355,000	185
112	4200	2.27					441,000	255	429,000	250	415,000	240	401,000	230	385,000	225
118	4400	2.49					465,000	295	454,000	290	442,000	280	429,000	270	413,000	260
123	4600	2.72							478,000	330	468,000	325	454,000	315	441,000	305
128	4800	2.96							504,000	380	492,000	375	481,000	365	469,000	355
134	5000	3.21							528,000	430	518,000	425	507,000	415	495,000	405
140	5250	3.54							556,000	500	548,000	495	539,000	490	528,000	480
147	5500	3.89									579,000	575	570,000	565	558,000	555
154	5750	4.25									609,000	660	601,000	650	589,000	640

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
80	3000	1.16	186,000	52												
86	3200	1.32	218,000	70	182,000	58										
91	3400	1.49	247,000	92	215,000	78										
96	3600	1.67	277,000	115	242,000	100	219,000	90								
102	3800	1.86	307,000	145	277,000	130	256,000	115	219,000	100						
107	4000	2.01	338,000	175	307,000	155	283,000	140	251,000	125	217,000	105				
112	4200	2.27	369,000	215	339,000	190	314,000	175	287,000	160	250,000	140				
118	4400	2.49	399,000	255	367,000	230	346,000	215	316,000	195	284,000	175				
123	4600	2.72	427,000	295	399,000	275	375,000	255	348,000	235	324,000	215	271,000	180		
128	4800	2.96	455,000	345	429,000	320	404,000	300	379,000	280	350,000	255	304,000	220		
134	5000	3.21	481,000	395	458,000	375	434,000	350	400,000	330	379,000	300	337,000	265	290,000	230
140	5250	3.54	518,000	465	494,000	445	469,000	420	446,000	400	419,000	370	376,000	325	339,000	295
147	5500	3.89	551,000	545	527,000	525	505,000	500	481,000	475	454,000	445	410,000	395	374,000	355
154	5750	4.25	583,000	635	561,000	610	540,000	585	517,000	560	494,000	530	448,000	470	413,000	430
160	6000	4.62	614,000	725	595,000	705	576,000	680	554,000	655	532,000	625	485,000	560	451,000	530
167	6250	5.01	646,000	830	628,000	805	610,000	780	580,000	750	569,000	725	523,000	660	489,000	610
174	6500	5.43	676,000	935	661,000	915	641,000	890	624,000	865	604,000	835	563,000	775	528,000	710
181	6750	5.85	707,000	1060	692,000	1040	675,000	1010	659,000	985	639,000	955	600,000	895	565,000	820
187	7000	6.30	737,000	1180	723,000	1170	708,000	1140	692,000	1110	674,000	1080	637,000	1030	603,000	950
200	7500	7.22			787,000	1450	771,000	1480	758,000	1400	741,000	1370	709,000	1310	674,000	1240
214	8000	8.22			815,000	1770	833,000	1750	820,000	1730	806,000	1690	777,000	1630	745,000	1570
227	8500	9.28					893,000	2100	883,000	2100	869,000	2070	843,000	2010	816,000	1940
241	9000	10.40					953,000	2540	944,000	2510	934,000	2480	909,000	2430	883,000	2360
254	9500	11.60							1,010,000	2970	995,000	2940	972,000	2880	949,000	2800
268	10000	12.84									1,060,000	3460	1,040,000	3400	1,020,000	3320

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
147	5500	3.89	330,000	315												
154	5750	4.25	370,000	380	331,000	345										
160	6000	4.62	410,000	465	372,000	385										
167	6250	5.01	449,000	550	412,000	505										
174	6500	5.43	481,000	650	458,000	590	385,000	515								
181	6750	5.85	521,000	755	490,000	705	425,000	610								
187	7000	6.30	559,000	880	529,000	820	464,000	720	396,000	610						
200	7500	7.22	635,000	1160	605,000	1080	540,000	960	476,000	840	412,000	710				
214	8000	8.22	712,000	1480	677,000	1410	614,000	1250	556,000	1120	499,000	1010	434,000	845		
227	8500	9.28	785,000	1860	753,000	1780	689,000	1600	632,000	1450	579,000	1320	527,000	1200	467,000	1040
241	9000	10.40	855,000	2270	826,000	2200	764,000	2010	708,000	1830	658,000	1680	609,000	1560	559,000	1430
254	9500	11.60	926,000	2730	898,000	2660	843,000	2490	783,000	2290	730,000	2110	688,000	1960	642,000	1830
268	10000	12.84	990,000	3250	967,000	3170	917,000	3000	860,000	2790	805,000	2590	758,000	2420	719,000	2270

Double Inlet | **Single Width**

No. 26 Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
23	1000	0.1281	64,500	2.0												
28	1200	0.185	101,000	4.8												
32	1400	0.252	140,000	8.9												
37	1600	0.329	175,000	14.5	120,000	10										
42	1800	0.442	209,000	22	165,000	17	131,000	14								
46	2000	0.514	240,000	31	201,000	26	168,000	21	129,000	16						
51	2200	0.621	270,000	43	238,000	38	206,000	32	169,000	26						
55	2400	0.740	299,000	56	271,000	52	241,000	45	209,000	38	182,000	32				
60	2600	0.868	328,000	72	304,000	68	275,000	60	244,000	52	220,000	47	198,000	42		
65	2800	1.01			335,000	86	309,000	80	283,000	72	258,000	66	233,000	58	212,000	52
69	3000	1.16			365,000	110	344,000	100	316,000	92	294,000	86	265,000	76	248,000	70
74	3200	1.32			396,000	135	374,000	125	350,000	115	326,000	110	306,000	100	280,000	92
78	3400	1.49			425,000	160	404,000	155	385,000	145	362,000	135	341,000	130	318,000	115
83	3600	1.67			454,000	195	437,000	185	418,000	180	397,000	170	374,000	160	352,000	145
88	3800	1.86					466,000	220	449,000	215	430,000	205	410,000	195	387,000	180
92	4000	2.01					496,000	260	480,000	250	462,000	240	443,000	235	423,000	220
97	4200	2.27					525,000	305	510,000	295	495,000	285	478,000	275	459,000	265
102	4400	2.49					554,000	350	540,000	345	526,000	335	510,000	325	491,000	310
106	4600	2.72							569,000	395	556,000	385	540,000	375	525,000	365
111	4800	2.96							600,000	455	585,000	445	573,000	435	559,000	425
115	5000	3.21							629,000	515	616,000	505	604,000	495	590,000	485
121	5250	3.54							663,000	595	652,000	590	641,000	580	629,000	570
127	5500	3.89									689,000	680	679,000	675	664,000	660
133	5750	4.25									725,000	790	715,000	775	701,000	760

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
69	3000	1.16	221,000	62												
74	3200	1.32	260,000	84	217,000	70										
78	3400	1.49	295,000	110	257,000	94										
83	3600	1.67	330,000	135	289,000	120	262,000	105								
88	3800	1.86	366,000	170	330,000	150	305,000	140	260,000	120						
92	4000	2.01	403,000	210	366,000	185	337,000	170	300,000	150	258,000	125				
97	4200	2.27	440,000	255	404,000	230	374,000	210	340,000	190	298,000	165				
102	4400	2.49	475,000	300	437,000	275	412,000	255	377,000	230	339,000	205				
106	4600	2.72	508,000	355	475,000	330	446,000	305	415,000	280	386,000	260	323,000	215		
111	4800	2.96	541,000	410	510,000	385	481,000	360	452,000	330	417,000	305	363,000	265		
115	5000	3.21	576,000	470	545,000	445	516,000	420	487,000	395	452,000	360	402,000	315	345,000	270
121	5250	3.54	616,000	555	588,000	530	558,000	500	531,000	475	499,000	440	448,000	390	404,000	350
127	5500	3.89	656,000	650	629,000	625	601,000	595	573,000	565	541,000	530	489,000	470	446,000	425
133	5750	4.25	694,000	755	669,000	725	643,000	685	615,000	665	589,000	635	534,000	560	492,000	510
138	6000	4.62	730,000	865	709,000	840	686,000	810	660,000	775	634,000	745	578,000	670	537,000	630
144	6250	5.01	770,000	990	747,000	955	726,000	925	701,000	895	677,000	860	622,000	785	583,000	725
150	6500	5.43	805,000	1110	786,000	1090	764,000	1060	743,000	1030	720,000	995	670,000	925	629,000	840
156	6750	5.85	842,000	1260	824,000	1240	804,000	1200	785,000	1170	761,000	1140	715,000	1060	672,000	990
161	7000	6.30	877,000	1410	861,000	1390	843,000	1360	824,000	1330	802,000	1290	759,000	1220	717,000	1140
173	7500	7.22			937,000	1730	918,000	1700	901,000	1670	882,000	1630	844,000	1560	802,000	1480
184	8000	8.22			1,010,000	2110	992,000	2080	976,000	2050	960,000	2010	926,000	1940	887,000	1870
196	8500	9.28					1,060,000	2510	1,050,000	2500	1,040,000	2460	1,000,000	2390	972,000	2300
208	9000	10.40					1,140,000	3020	1,130,000	3000	1,110,000	2960	1,080,000	2890	1,050,000	2800
219	9500	11.60							1,200,000	3540	1,190,000	3510	1,160,000	3440	1,130,000	3340
230	10000	12.84									1,260,000	4130	1,230,000	4050	1,210,000	3960

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
127	5500	3.89	394,000	375												
133	5750	4.25	441,000	450	395,000	410										
138	6000	4.62	489,000	555	443,000	460										
144	6250	5.01	535,000	660	491,000	605										
150	6500	5.43	576,000	775	545,000	700	459,000	610								
156	6750	5.85	620,000	900	584,000	840	506,000	725								
161	7000	6.30	666,000	1050	630,000	980	553,000	855	472,000	725						
173	7500	7.22	756,000	1380	720,000	1290	644,000	1140	567,000	1000	491,000	850				
184	8000	8.22	846,000	1770	806,000	1680	731,000	1490	662,000	1330	595,000	1200	517,000	1010		
196	8500	9.28	935,000	2210	898,000	2120	820,000	1910	752,000	1730	690,000	1570	628,000	1430	556,000	1230
208	9000	10.40	1,020,000	2700	985,000	2620	910,000	2400	842,000	2180	784,000	2010	725,000	1860	666,000	1700
219	9500	11.60	1,100,000	3260	1,070,000	3170	1,000,000	2960	934,000	2720	869,000	2510	818,000	2340	764,000	2170
230	10000	12.84	1,180,000	3880	1,150,000	3780	1,090,000	3580	1,020,000	3330	960,000	3090	904,000	2880	856,000	2700

Double Inlet # No. 2 Multivane Fan — Design 3 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
308	1075	0.152	294	0.012												
353	1200	0.189	1,300	0.054												
412	1400	0.258	1,740	0.10	46	0.020										
470	1600	0.337	2,120	0.16	1,556	0.115										
529	1800	0.426	2,410	0.23	2,280	0.20	376	0.08								
588	2000	0.526	2,780	0.32	2,500	0.30	2,040	0.24	106	0.058						
646	2200	0.636	3,080	0.44	2,880	0.41	2,540	0.36	1,982	0.28	36	0.068				
705	2400	0.759	3,400	0.57	3,220	0.55	2,900	0.51	2,600	0.44	1,934	0.33	28	0.094		
765	2600	0.889	3,700	0.73	3,540	0.71	3,340	0.67	3,060	0.61	2,680	0.53	1,912	0.39		
824	2800	1.03			3,880	0.89	3,700	0.87	3,480	0.81	3,200	0.71	2,720	0.63	1,930	0.49
882	3000	1.19			4,200	1.10	4,040	1.1	3,860	1.05	3,620	0.97	3,320	0.88	2,940	0.78
941	3200	1.35			4,500	1.35	4,380	1.3	4,220	1.30	4,020	1.20	3,800	1.15	3,500	1.10
1000	3400	1.52			4,820	1.60	4,700	1.6	4,560	1.55	4,400	1.55	4,220	1.45	3,980	1.35
1059	3600	1.71			5,120	1.95	5,000	1.9	4,900	1.9	4,760	1.85	4,580	1.75	4,400	1.7
1118	3800	1.90			5,420	2.3	5,320	2.3	5,220	2.2	5,100	2.2	4,960	2.1	4,786	2.1
1177	4000	2.11					5,640	2.6	5,540	2.6	5,420	2.6	5,320	2.5	5,160	2.5
1236	4200	2.32					5,900	3.1	5,840	3.0	5,760	3.0	5,660	3.0	5,520	2.9
1294	4400	2.55					6,260	3.6	6,180	3.5	6,080	3.5	5,980	3.4	5,880	3.4
1353	4600	2.78					6,560	4.1	6,480	4.0	6,400	4.0	6,300	3.9	6,200	3.9
1412	4800	3.03							6,800	4.6	6,720	4.5	6,640	4.5	6,540	4.4
1471	5000	3.29							7,100	5.2	7,040	5.1	6,960	5.1	6,860	5.0
1545	5250	3.63							7,480	6	7,420	6.0	7,340	6.0	7,260	5.9
1618	5500	3.98									7,800	6.9	7,720	6.8	7,640	6.8
1692	5750	4.35									8,180	7.9	8,120	7.8	8,060	7.8
1767	6000	4.74									8,560	9.1	8,520	9.0	8,440	8.9
1840	6250	5.11											8,880	10.0	8,840	10
1912	6500	5.56											9,260	11.5	9,200	11
1986	6750	5.99													9,600	13

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
882	3000	1.19	1,730	0.47												
941	3200	1.35	3,120	0.91	312	0.29										
1000	3400	1.52	3,680	1.25	2,740	0.94										
1059	3600	1.71	4,160	1.6	3,560	1.35	774	0.47								
1118	3800	1.90	4,600	1.9	4,120	1.75	3,380	1.45	408	0.40						
1177	4000	2.11	5,000	2.4	4,600	2.2	4,080	1.8	3,100	1.45						
1236	4200	2.32	5,380	2.8	5,040	2.6	4,020	2.4	4,000	2.1	1,178	0.8				
1294	4400	2.55	5,760	3.3	5,440	3.1	5,080	2.9	4,640	2.6	3,920	2.1				
1353	4600	2.78	6,080	3.8	5,840	3.7	5,520	3.5	5,140	3.2	4,700	2.9	736	0.93		
1412	4800	3.03	6,440	4.4	6,200	4.3	5,940	4.1	5,600	3.8	5,200	3.5	3,840	2.6		
1471	5000	3.29	6,780	5.0	6,580	4.9	6,340	4.7	6,040	4.5	5,700	4.3	4,740	3.5	644	1.15
1545	5250	3.63	7,180	5.8	7,020	5.7	6,780	5.6	6,560	5.4	6,240	5.1	5,500	4.4	4,160	3.4
1618	5500	3.98	7,580	6.7	7,420	6.6	7,240	6.5	7,020	6.3	6,760	6.1	6,140	5.5	5,260	4.6
1692	5750	4.35	7,960	7.8	7,840	7.7	7,600	7.6	7,480	7.4	7,240	7.1	6,720	6.6	6,020	5.8
1767	6000	4.71	8,400	8.8	8,240	8.7	8,120	8.7	7,920	8.5	7,720	8.3	7,260	7.7	6,660	7.1
1840	6250	5.14	8,780	10.0	8,660	9.9	8,500	9.8	8,360	9.7	8,180	9.5	7,760	9.0	7,240	8.4
1912	6500	5.56	9,160	11.0	9,000	11.0	8,900	11	8,780	11.0	8,600	11.0	8,200	10.5	7,820	9.8
1986	6750	5.99	9,540	12.5	9,440	12.5	9,300	12	9,200	12.5	9,060	12.0	8,700	12.0	8,300	11.0
2060	7000	6.45	9,920	14.0	9,820	14.0	9,700	14	9,600	14	9,460	13.5	9,160	13.5	8,800	13.0
2205	7500	7.40	10,700	17.5	10,600	17.5	10,500	17	10,400	17	10,300	17	10,000	17	9,760	16.5
2355	8000	8.41			11,400	21	11,300	21	11,200	21	11,100	21	10,900	20	10,600	20
2500	8500	9.50			12,100	26	12,000	26	12,000	25	11,900	25	11,700	25	11,500	25

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1618	5500	3.98	1,152	1.65												
1692	5750	4.35	4,910	4.8												
1767	6000	4.71	5,880	6.2	2,980	3.0										
1840	6250	5.14	6,600	7.6	5,700	6.5										
1912	6500	5.56	7,260	9.0	6,560	8.1	1,030	2.6								
1986	6750	5.99	7,820	10.5	7,240	9.6	5,120	6.8								
2060	7000	6.45	8,380	12	7,880	11.5	6,460	9.2	600	2.8						
2205	7500	7.40	9,400	16	9,000	15	7,960	13.0	6,300	10.5	470	3.3				
2355	8000	8.41	10,300	20	10,000	19	9,200	17.5	8,140	15	6,200	11.5	422	3.8		
2500	8500	9.50	11,200	24	10,900	24	10,300	22	9,420	20	8,400	18	5,640	14	501	4.9
2645	9000	10.67	12,000	29	11,900	29	11,300	27	10,600	26	9,780	23	8,660	20	4,460	11
2795	9500	11.89	12,900	34	12,700	34	12,200	33	11,700	31	11,000	29	10,100	27	9,060	24
2940	10000	13.17	13,700	40	13,600	40	13,200	39	12,700	38	12,100	36	11,400	34	10,500	31

Double Inlet

No. 3 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
247	1075	0.152	160	0.020												
282	1200	0.189	2,020	0.086												
329	1400	0.258	2,720	0.16	72	0.032										
376	1600	0.337	3,300	0.25	2,410	0.18										
424	1800	0.426	3,820	0.37	3,240	0.31	588	0.092								
470	2000	0.526	4,320	0.50	3,900	0.47	3,180	0.37	164	0.092						
517	2200	0.636	4,840	0.71	4,180	0.65	3,960	0.57	3,100	0.44	56	0.11				
565	2400	0.759	5,300	0.89	5,020	0.86	4,640	0.79	4,060	0.69	3,020	0.51	44	0.145		
611	2600	0.889	5,760	1.15	5,510	1.1	5,220	1.05	4,780	0.96	4,180	0.82	2,980	0.61		
659	2800	1.03			6,060	1.4	5,780	1.35	5,440	1.30	4,980	1.15	4,240	0.98	3,020	0.76
705	3000	1.19			6,560	1.7	6,320	1.7	6,020	1.6	5,660	1.5	5,200	1.4	4,600	1.2
753	3200	1.35			7,010	2.1	6,840	2.1	6,600	2.0	6,280	1.9	5,920	1.8	5,460	1.7
800	3400	1.52			7,520	2.5	7,340	2.5	7,120	2.4	6,860	2.4	6,600	2.3	6,200	2.1
847	3600	1.71			7,980	3.1	7,820	3.0	7,640	2.9	7,410	2.9	7,160	2.8	6,880	2.6
894	3800	1.90			8,480	3.6	8,320	3.5	8,140	3.5	7,960	3.4	7,740	3.3	7,460	3.2
941	4000	2.11					8,800	4.1	8,640	4.0	8,480	4.0	8,300	3.9	8,060	3.8
988	4200	2.32					9,300	4.8	9,120	4.7	8,980	4.7	8,840	4.6	8,620	4.5
1036	4400	2.55					9,760	5.6	9,640	5.5	9,500	5.4	9,320	5.3	9,160	5.3
1082	4600	2.78					10,200	6.4	10,100	6.2	10,000	6.2	9,820	6.1	9,700	6.1
1130	4800	3.03							10,600	7.1	10,500	7.1	10,400	7.0	10,200	6.9
1178	5000	3.29							11,100	8.1	11,000	8.0	10,800	7.9	10,700	7.8
1235	5250	3.63							11,700	9.4	11,600	9.3	11,500	9.3	11,300	9.2
1293	5500	3.98									12,200	11.0	12,000	10.5	11,900	10.5
1353	5750	4.35									12,800	12.5	12,700	12	12,600	12
1412	6000	4.71									13,400	14	13,300	14	13,200	14
1471	6250	5.14											13,900	16	13,800	16
1530	6500	5.56											14,500	18	14,100	18
1589	6750	5.99													15,000	20

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
705	3000	1.19	2,700	0.73												
753	3200	1.35	2,880	1.45	486	0.45										
800	3400	1.52	5,700	1.95	4,280	1.45										
847	3600	1.71	6,480	2.5	5,560	2.1	1,176	0.73								
894	3800	1.90	7,200	3.1	6,440	2.7	5,280	2.2	636	0.76						
941	4000	2.11	7,800	3.7	7,180	3.4	6,360	3.0	4,840	2.3						
988	4200	2.32	8,400	4.4	7,880	4.1	7,200	3.7	6,260	3.2	1,818	1.25				
1036	4400	2.55	8,980	5.2	8,500	4.9	7,920	4.5	7,240	4.1	6,100	3.3				
1082	4600	2.78	9,500	6.0	9,100	5.7	8,620	5.4	8,000	5.0	7,340	4.5	1,150	1.45		
1130	4800	3.03	10,000	6.8	9,680	6.6	9,060	6.4	8,720	6.0	8,100	5.5	6,000	4.1		
1178	5000	3.29	10,600	7.8	10,300	7.6	9,900	7.4	9,400	7.0	8,880	6.6	7,400	5.4	1,000	1.8
1235	5250	3.63	10,800	9.1	10,900	8.9	10,600	8.7	10,200	8.4	9,740	8.0	8,600	6.9	6,500	5.3
1293	5500	3.98	11,800	10.5	11,600	10.5	11,300	10.0	10,900	9.8	10,600	9.5	9,580	8.5	8,220	7.3
1353	5750	4.35	12,400	12.0	12,200	12.0	12,000	11.0	11,700	11.5	11,300	11	10,500	10.0	9,400	9.1
1412	6000	4.74	13,100	14.0	12,900	13.5	12,700	13.5	12,400	13	12,000	13	11,300	12.0	10,400	11.0
1471	6250	5.14	13,700	15.5	13,500	15.5	13,300	15.5	13,000	15	12,700	15	12,100	14.0	11,300	13.0
1530	6500	5.56	14,300	17.5	14,100	17.5	13,900	17.0	13,700	17	13,400	17	12,900	16.0	12,200	15.0
1589	6750	5.99	14,900	20	14,700	20	14,600	19.5	14,400	19	14,100	19	13,600	18.5	13,300	17.5
1648	7000	6.45	15,500	22	15,300	22	15,200	22	15,000	22	14,800	21	14,300	21	13,700	20
1764	7500	7.40	16,700	28	16,500	27	16,400	27	16,200	27	16,000	27	15,700	26	15,200	26
1882	8000	8.51			17,700	33	17,600	33	17,500	33	17,300	32	17,000	32	16,600	32
2000	8500	9.50			18,900	40	18,800	40	18,700	40	18,500	39	18,200	39	17,900	38

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	†Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1293	5500	3.98	1,800	2.6												
1353	5750	4.35	7,700	7.5												
1412	6000	4.74	9,180	9.6	4,610	4.7										
1471	6250	5.14	10,300	12.0	8,880	10.0										
1530	6500	5.56	11,300	14.0	10,200	12.5	1,610	4.1								
1589	6750	5.99	12,200	16.5	11,300	15.0	7,980	10.5								
1648	7000	6.45	13,100	19	12,300	17.5	10,100	14.5	938	4.4						
1764	7500	7.45	14,700	25	14,100	23	12,400	20	9,840	16.5	734	5.2				
1882	8000	8.41	16,100	31	15,600	30	14,400	27	12,700	24	9,680	18	660	5.9		
2000	8500	9.50	17,500	38	17,100	37	16,100	35	14,700	32	13,100	28	8,800	21	788	7.7
2120	9000	10.67	18,800	45	18,500	45	17,600	43	16,600	40	15,300	37	13,500	32	6,960	17.5
2237	9500	11.89	20,200	54	19,800	54	19,100	52	18,200	49	17,100	46	15,800	42	14,100	37
2352	10000	13.17	21,400	62	21,200	62	20,600	62	19,700	58	18,800	56	17,760	52	16,500	48

Double Inlet # No. 4 Multivane Fan—Design 3 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
206	1075	0.152	662	0.028												
235	1200	0.189	2,920	0.125												
274	1400	0.258	3,920	0.23	101	0.016										
314	1600	0.337	4,740	0.36	3,500	0.26										
353	1800	0.426	5,500	0.53	4,680	0.45	828	0.132								
392	2000	0.526	6,240	0.73	5,640	0.67	4,580	0.51	238	0.13						
431	2200	0.636	6,910	0.98	6,460	0.93	5,720	0.82	4,160	0.63	82	0.16				
470	2400	0.759	7,640	1.30	7,240	1.25	6,680	1.15	4,840	0.99	4,310	0.71	62	0.21		
510	2600	0.889	8,300	1.65	7,980	1.6	7,520	1.50	6,900	1.40	6,000	1.20	4,300	0.88		
549	2800	1.03			8,720	2.0	8,320	1.95	7,840	1.85	7,180	1.65	6,125	1.4	4,340	1.10
588	3000	1.19			9,440	2.5	9,100	2.4	8,680	2.3	8,140	2.2	7,180	2.0	6,620	1.75
627	3200	1.35			10,100	3.0	9,840	3.0	9,500	2.9	9,040	2.8	8,520	2.6	7,860	2.4
666	3400	1.52			10,800	3.7	10,600	3.6	10,300	3.5	9,900	3.5	9,500	3.3	8,910	3.1
705	3600	1.71			11,500	4.4	11,300	4.3	11,000	4.2	10,700	4.1	10,300	4.0	9,900	3.8
745	3800	1.90			12,200	5.2	12,000	5.1	11,700	5.0	11,500	4.9	11,100	4.8	10,800	4.6
785	4000	2.11					12,700	5.9	12,500	5.8	12,200	5.8	12,000	5.7	11,600	5.5
824	4200	2.32					13,400	6.9	13,100	6.8	12,940	6.7	12,700	6.6	12,420	6.5
862	4400	2.55					14,000	8.0	13,900	7.9	13,700	7.8	13,400	7.7	13,200	7.6
901	4600	2.78					14,700	9.1	14,560	9.0	14,400	8.9	14,200	8.8	14,000	8.7
941	4800	3.03							15,300	10.0	15,100	10.0	14,900	11.0	14,700	10.0
980	5000	3.29							16,000	11.5	15,800	11.5	15,600	11.5	15,400	11.0
1030	5250	3.63							16,800	13.5	16,700	13.5	16,500	13.5	16,300	13.0
1078	5500	3.98									17,500	15.5	17,300	15.5	17,200	15.0
1128	5750	4.35									18,400	18	18,300	17.5	18,100	17.5
1177	6000	4.74									19,300	20	19,200	20	19,000	20
1225	6250	5.14											20,000	23	19,900	23
1275	6500	5.56											20,800	26	20,700	26
1323	6750	5.99													21,600	29

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
588	3000	1.19	3,900	1.05												
627	3200	1.35	7,020	2.4	700	0.64										
666	3400	1.52	8,300	2.8	6,180	2.4										
705	3600	1.71	9,340	3.6	8,000	3.0	1,700	1.05								
745	3800	1.90	10,400	4.4	9,280	3.9	7,600	3.2	916	1.1						
785	4000	2.11	11,300	5.4	10,300	4.9	9,160	4.3	6,980	3.3						
824	4200	2.32	12,100	6.4	11,300	5.9	10,400	5.4	9,000	4.6	2,640	1.8				
862	4400	2.55	12,900	7.5	12,200	7.1	11,420	6.5	10,400	5.9	8,800	4.8				
901	4600	2.78	13,700	8.6	13,100	8.2	12,420	7.8	11,500	7.2	10,600	6.5	1,654	2.1		
941	4800	3.03	14,500	9.9	14,000	9.6	13,360	9.2	12,600	8.6	11,700	7.9	8,640	5.9		
980	5000	3.29	15,200	11	14,800	11	14,240	11	13,600	11.0	12,800	9.6	10,600	7.8	1,450	2.6
1030	5250	3.63	16,100	13	15,800	13	15,260	13	14,700	12.0	14,000	11.5	12,400	10	9,360	7.6
1078	5500	3.98	17,100	15	16,700	15	16,280	15	15,800	14.0	15,200	14.0	13,800	12	11,800	10.5
1128	5750	4.35	17,900	17	17,600	17	17,240	17	16,800	16.5	16,300	16.0	15,100	15	13,500	13
1177	6000	4.74	18,900	20	18,500	20	18,220	19	17,800	19	17,400	18.5	16,300	17	15,000	16
1225	6250	5.14	19,700	23	19,500	22	19,140	22	18,800	22	18,400	21	17,400	20	16,300	19
1275	6500	5.56	20,600	25	20,200	25	20,000	25	19,700	25	19,300	24	18,500	23	17,500	22
1323	6750	5.99	21,400	29	21,200	28	21,000	28	20,600	28	20,400	27	19,600	27	18,700	25
1372	7000	6.45	22,400	32	22,200	32	21,800	32	21,600	31	21,200	31	20,600	30	19,800	29
1471	7500	7.40	24,000	40	23,800	39	23,600	39	23,400	38	23,200	38	22,600	38	22,000	37
1569	8000	8.41			25,600	48	25,400	47	25,200	47	25,000	47	24,400	46	24,000	46
1668	8500	9.50			27,400	58	27,000	57	27,000	56	26,800	56	26,200	56	25,800	56

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1078	5500	3.98	2,600	3.7												
1128	5750	4.35	11,100	11												
1177	6000	4.74	13,200	14	6,680	6.8										
1225	6250	5.14	14,800	17	12,800	14.5										
1275	6500	5.56	16,300	20	14,800	18	2,320	5.9								
1323	6750	5.99	17,600	24	16,300	22	11,500	15								
1372	7000	6.45	18,800	27	17,700	25	14,500	21	13,500	6.3						
1471	7500	7.40	21,200	35	20,200	31	17,900	29	14,200	23	1,060	7.5				
1569	8000	8.41	23,200	44	22,600	43	20,800	39	18,300	34	13,900	26	950	8.5		
1668	8500	9.50	25,200	54	24,600	52	23,200	50	21,200	45	18,900	40	12,700	30	1,136	11
1764	9000	10.67	27,000	64	26,600	64	25,400	62	24,000	58	22,000	52	19,460	46	10,020	25
1862	9500	11.89	29,000	78	28,600	78	27,600	74	26,200	70	24,600	66	22,800	60	20,400	54
1960	10000	13.17	30,800	90	30,400	90	29,600	88	28,400	84	27,200	82	25,600	76	23,600	70

Double Inlet **Double Width**

No. 5 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
176	1075	0.152	902	0.38												
202	1200	0.189	3,980	0.47												
235	1400	0.258	5,310	0.31	142	0.064										
269	1600	0.337	6,180	0.49	4,780	0.36										
302	1800	0.426	7,500	0.72	6,380	0.61	1,156	0.17								
336	2000	0.526	8,500	0.99	7,680	0.92	6,210	0.73	324	0.18						
370	2200	0.636	9,480	1.35	8,820	1.25	7,800	1.10	6,080	0.86	112	0.22				
404	2400	0.759	10,400	1.75	9,860	1.7	9,100	1.55	7,960	1.35	5,920	1.0	84	0.29		
437	2600	0.889	11,300	2.2	10,900	2.2	10,300	2.1	9,400	1.9	8,200	1.6	5,880	1.2		
470	2800	1.03			11,900	2.7	11,400	2.7	10,900	2.5	9,800	2.3	8,340	1.9	5,920	1.5
504	3000	1.19			12,900	3.4	12,400	3.3	11,800	3.2	11,100	3.0	10,200	2.7	9,020	2.4
538	3200	1.35			13,800	4.1	13,400	4.0	13,000	4.0	12,300	3.8	11,600	3.5	10,720	3.3
571	3400	1.52			14,800	5.0	14,400	4.9	14,000	4.8	13,500	4.7	13,000	4.4	12,200	4.2
605	3600	1.71			15,700	6.0	15,300	5.8	15,000	5.8	14,600	5.6	14,060	5.4	13,500	5.2
639	3800	1.90			16,600	7.1	16,300	6.9	16,000	6.8	15,600	6.7	15,200	6.5	14,700	6.3
672	4000	2.11					17,300	8.1	17,000	8.0	16,600	7.9	16,300	7.8	15,800	7.6
705	4200	2.32					18,300	9.5	17,900	9.3	17,700	9.2	17,400	9.1	16,900	8.9
740	4400	2.55					19,200	11	18,900	11.0	18,700	10.5	18,300	10.5	18,000	10.5
773	4600	2.78					20,200	13	19,900	12.0	19,600	12.0	19,300	12.0	19,000	12.0
807	4800	3.03							20,800	14.0	20,600	14.0	20,400	14.0	20,000	13.5
840	5000	3.29							21,800	16.0	21,600	16.0	21,200	15.5	21,000	15.5
882	5250	3.63							23,000	18.5	22,800	18.5	22,600	18	22,200	18
925	5500	3.98									24,000	21	23,600	21	23,100	21
966	5750	4.35									25,200	24	25,000	24	24,800	24
1009	6000	4.74									26,300	28	26,100	28	26,000	27
1050	6250	5.14											27,300	31	27,100	31
1092	6500	5.56											28,400	35	28,200	35
1134	6750	5.99													29,400	39

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1⅛" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
504	3000	1.19	5,320	1.45												
538	3200	1.35	9,560	2.9	954	0.87										
571	3400	1.52	11,300	3.8	8,420	2.9										
605	3600	1.71	12,600	4.9	10,900	4.1	2,320	1.45								
639	3800	1.90	14,100	6.1	12,600	5.4	10,400	4.4	1,250	1.5						
672	4000	2.11	15,300	7.3	14,100	6.7	12,500	5.9	9,500	4.5						
705	4200	2.32	16,500	8.7	15,500	8.1	14,160	7.4	12,300	6.3	3,620	2.5				
740	4400	2.55	17,700	10.0	16,700	9.6	15,580	8.9	14,200	8.1	12,000	6.6				
773	4600	2.78	18,700	12.0	17,900	11.0	16,940	11	15,700	9.9	14,400	8.9	2,260	2.9		
807	4800	3.03	19,700	13.5	19,000	13.0	18,200	12	17,200	12.0	15,920	11.0	11,800	8.0		
840	5000	3.29	20,800	15.5	20,200	15.0	19,400	15	18,500	14.0	17,440	13.0	14,500	10.5	1,970	3.5
882	5250	3.63	22,000	18	21,600	17.5	20,800	17	20,000	16.5	19,120	15.5	16,900	13.5	12,800	10.5
925	5500	3.98	23,200	21	22,800	20	22,200	20	21,600	19.5	20,800	19	18,800	17	16,100	14
966	5750	4.35	24,400	24	24,000	23	23,000	23	23,000	23	22,200	22	20,600	20	18,500	18
1009	6000	4.74	25,800	27	25,400	27	24,800	27	24,200	26	23,600	25	22,200	24	20,400	22
1050	6250	5.14	27,000	31	26,600	30	26,200	30	25,000	30	25,000	29	23,800	28	22,200	26
1092	6500	5.56	28,000	35	27,600	34	27,400	34	27,000	34	26,400	33	25,400	32	24,000	30
1134	6750	5.99	29,200	39	29,000	39	28,600	38	28,200	38	27,800	37	26,600	36	25,400	35
1177	7000	6.45	30,400	44	30,200	43	29,400	43	29,400	42	29,000	42	28,000	41	27,000	39
1260	7500	7.40	32,800	54	32,600	54	32,200	54	31,800	52	31,600	52	30,800	52	30,000	50
1344	8000	8.41			34,800	66	34,600	64	34,400	64	34,000	64	33,400	62	32,600	62
1430	8500	9.50			37,200	80	37,000	78	36,600	78	36,400	76	35,800	76	35,200	76

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
925	5500	3.98	3,540	5.1												
966	5750	4.35	15,120	11.5												
1009	6000	4.74	18,040	19	9,100	9.2										
1050	6250	5.14	20,200	23	17,500	20										
1092	6500	5.56	22,200	28	20,200	25	3,160	8								
1134	6750	5.99	24,000	32	22,200	30	15,700	21								
1177	7000	6.45	25,800	37	24,200	35	19,800	28	1,840	8.6						
1260	7500	7.40	28,800	48	27,600	46	24,400	40	19,320	32	1,440	10				
1344	8000	8.41	31,800	60	30,800	58	28,200	54	25,000	47	19,000	36	1,300	11.5		
1430	8500	9.50	34,400	74	33,600	72	31,600	68	29,000	62	25,800	54	17,300	41	1,550	15
1511	9000	10.67	37,000	88	36,400	88	34,600	84	32,600	80	30,000	72	26,600	62	13,700	34
1598	9500	11.89	39,600	105	39,000	105	37,600	100	35,800	96	33,600	90	31,000	82	27,800	74
1680	10000	13.17	42,000	125	41,000	125	40,400	120	38,800	115	37,000	110	35,000	105	32,400	94

Double Inlet

No. 6 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
154	1075	0.152	1,178	0.05												
176	1200	0.189	5,200	0.22												
206	1400	0.258	6,960	0.41	181	0.084										
235	1600	0.337	8,440	0.61	6,220	0.47										
265	1800	0.426	9,780	0.91	8,320	0.80	1,508	0.23								
294	2000	0.526	11,080	1.30	10,000	1.20	8,110	0.95	422	0.24						
324	2200	0.636	12,340	1.75	11,500	1.65	10,160	1.45	7,940	1.10	146	0.29				
353	2400	0.759	13,600	2.3	12,860	2.2	11,880	2.0	10,400	1.75	7,740	1.3	110	0.37		
382	2600	0.889	14,780	2.9	14,200	2.8	13,100	2.7	12,280	2.5	10,700	2.4	7,660	1.55		
412	2800	1.03			15,500	3.6	14,800	3.5	13,940	3.3	12,780	3.0	10,900	2.5	7,720	1.95
441	3000	1.19			15,800	4.4	16,200	4.3	15,440	4.1	14,500	3.9	13,280	3.5	11,780	3.1
470	3200	1.35			18,000	5.4	17,520	5.3	16,900	5.2	16,100	4.9	15,180	4.6	14,000	4.3
500	3400	1.52			19,280	6.5	18,800	6.4	18,240	6.2	17,600	6.2	16,900	5.8	15,900	5.4
529	3600	1.71			20,400	7.8	20,000	7.6	19,600	7.5	19,080	7.4	18,340	7.1	17,600	6.8
559	3800	1.90			21,800	9.2	21,400	9.0	20,800	8.8	20,400	8.7	19,820	8.5	19,140	8.3
588	4000	2.11					22,600	10.5	22,200	10.5	21,800	10.5	21,200	10.0	20,600	9.9
618	4200	2.32					23,800	12.5	23,400	12	23,000	12	22,600	12.0	22,200	11.5
647	4400	2.55					25,000	14.5	24,800	14	24,400	14	23,800	13.5	23,600	13.5
676	4600	2.78					26,200	16	26,000	16	25,600	16	25,200	15.5	24,800	15.5
706	4800	3.03							27,200	18	26,800	18	26,600	18	26,200	18
735	5000	3.29							28,400	21	28,200	21	27,800	20	27,400	20
772	5250	3.63							30,000	21	29,800	24	29,400	24	29,000	23
809	5500	3.98									31,200	28	30,800	27	30,600	27
846	5750	4.35									32,800	32	32,600	31	32,200	31
882	6000	4.71									34,200	36	34,000	36	33,800	36
919	6250	5.14											35,600	41	35,400	40
955	6500	5.56											37,200	46	36,800	46
992	6750	5.99													38,400	52

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
441	3000	1.19	6,920	1.9												
470	3200	1.35	12,500	3.7	1,240	1.15										
500	3400	1.52	14,740	5.0	11,000	3.7										
529	3600	1.71	16,620	6.4	14,260	5.4	3,020	1.85								
559	3800	1.90	18,140	7.9	16,500	7.0	13,520	5.8	1,630	1.95						
588	4000	2.11	20,000	9.6	18,400	8.7	16,280	7.6	12,400	5.8						
618	4200	2.32	21,600	11.5	20,200	10.5	18,480	9.6	16,020	8.3	4,720	3.2				
647	4400	2.55	23,000	13.5	21,800	12.5	20,400	11.5	18,520	10.5	15,640	8.6				
676	4600	2.78	24,400	15.5	23,400	14.5	22,200	14	20,600	13	18,800	11.5	2,940	3.7		
706	4800	3.03	25,800	17.5	24,800	17.0	23,800	16	22,400	15	20,800	14	15,380	10.5		
735	5000	3.29	27,000	20	26,400	19.5	25,400	19	24,200	18	22,800	17	19,940	14	2,580	4.6
772	5250	3.63	28,800	23	28,000	23	27,200	22	26,200	21	25,000	20	22,000	19	16,680	13.5
809	5500	3.98	30,100	27	29,800	27	29,000	26	28,000	25	27,000	24	24,600	22	21,000	18.5
846	5750	4.35	31,800	31	30,400	31	30,800	30	30,000	30	29,000	29	27,000	26	24,000	23
882	6000	4.71	33,600	35	33,000	35	32,400	35	31,600	34	30,800	33	29,000	31	26,600	28
919	6250	5.14	35,200	40	34,600	40	34,000	39	33,400	39	32,600	38	31,000	36	29,000	34
955	6500	5.56	36,600	45	36,000	45	35,600	44	35,200	44	34,400	43	33,000	42	31,200	39
992	6750	5.99	38,200	50	37,800	50	37,200	50	36,800	49	36,200	49	34,800	47	33,200	45
1030	7000	6.45	39,800	56	39,400	56	38,800	56	38,400	56	37,800	54	36,600	54	35,200	52
1103	7500	7.40	42,800	70	42,400	70	42,000	70	41,600	68	41,200	68	40,200	66	39,000	66
1178	8000	8.51			45,100	84	45,200	84	44,800	84	44,400	82	43,100	82	42,600	82
1250	8500	9.50			48,600	105	48,200	100	47,800	100	47,600	100	46,600	100	46,000	98

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
809	5500	3.98	1,600	6.7												
846	5750	4.35	19,720	19												
882	6000	4.74	23,600	25	11,880	12										
919	6250	5.14	26,100	30	22,800	26										
955	6500	5.56	29,000	36	26,200	33	4,120	10.5								
992	6750	5.99	31,200	42	29,000	39	20,100	27								
1030	7000	6.15	33,600	49	31,400	45	25,800	37	2,400	11						
1103	7500	7.45	37,600	64	36,000	60	31,800	52	25,200	42	1,880	13.5				
1178	8000	8.41	41,200	80	40,000	76	36,800	70	32,600	60	24,800	47	1,690	15		
1250	8500	9.50	44,800	96	43,800	94	41,200	88	37,600	80	33,600	70	22,600	54	2,020	20
1324	9000	10.67	48,200	115	47,100	115	45,200	110	42,400	105	39,000	94	34,600	82	17,800	44
1398	9500	11.89	51,600	135	50,800	135	49,000	130	46,600	125	43,800	115	40,400	110	36,200	96
1470	10000	13.17	54,800	160	54,200	160	52,600	155	50,600	150	48,200	145	45,600	135	42,200	125

Double Inlet **Double Width**

No. 6½ Multivane Fan — Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
137	1075	0.152	1,190	0.061												
157	1200	0.189	6,560	0.28												
183	1400	0.258	8,800	0.52	231	0.105										
209	1600	0.337	10,680	0.81	7,880	0.59										
235	1800	0.426	12,360	1.20	10,520	1.0	1,904	0.30								
262	2000	0.526	14,000	1.65	12,660	1.5	10,300	1.20	534	0.3						
288	2200	0.636	15,600	2.2	14,520	2.1	12,840	1.85	10,020	1.4	184	0.36				
314	2400	0.759	17,180	2.9	16,260	2.8	15,000	2.6	13,140	2.2	9,780	1.65	140	0.47		
340	2600	0.889	18,680	3.7	17,920	3.6	16,920	3.4	15,520	3.1	13,520	2.7	9,680	1.95		
366	2800	1.03			19,600	4.5	18,720	4.4	17,640	4.1	16,140	3.7	13,760	3.2	9,760	2.5
392	3000	1.19			21,200	5.6	20,400	5.5	19,520	5.2	18,340	4.9	16,840	4.5	14,900	3.9
418	3200	1.35			22,800	6.8	22,200	6.7	21,400	6.5	20,400	6.2	19,200	5.8	17,680	5.4
444	3400	1.52			24,400	8.2	23,800	8.0	23,000	7.9	22,200	7.8	21,400	7.3	20,200	6.9
470	3600	1.71			25,800	9.9	25,400	9.6	24,800	9.5	24,200	9.3	23,200	8.9	22,200	8.6
496	3800	1.90			27,400	11.5	27,000	11.5	26,400	11	25,800	11.0	25,000	11.0	24,200	10.5
523	4000	2.11					28,600	13.0	28,000	13	27,400	13.0	27,000	13.0	26,000	12.5
549	4200	2.32					30,200	15.5	29,600	15	29,200	15.0	28,600	15.0	28,000	14.5
575	4400	2.55					31,600	18	31,200	18	30,800	17.5	30,200	17.5	29,800	17.0
601	4600	2.78					33,200	21	32,800	20	32,400	20	31,800	20	31,400	19.5
627	4800	3.03							34,400	23	34,000	23	33,600	23	33,200	22
654	5000	3.29							36,000	26	35,600	26	35,200	26	34,800	25
686	5250	3.63							37,800	31	37,600	30	37,200	30	36,800	30
719	5500	3.98									39,400	35	39,000	34	38,800	34
751	5750	4.35									41,400	40	41,200	40	40,800	39
785	6000	4.74									43,400	46	43,400	45	42,800	45
816	6250	5.14											45,000	52	44,800	52
850	6500	5.56											47,000	58	46,600	58
882	6750	5.99													48,600	64

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
392	3000	1.19	8,760	2.4												
418	3200	1.35	15,780	4.7	1,576	1.45										
444	3400	1.52	18,640	6.3	13,900	4.7										
470	3600	1.71	21,000	8.0	18,020	6.8	3,820	2.4								
496	3800	1.90	23,400	10.0	20,800	8.8	17,100	7.2	2,060	2.5						
523	4000	2.11	25,400	12.0	23.200	11.0	20,600	9.7	15,680	7.4						
549	4200	2.32	27,200	14.0	25,600	13.5	23,400	12.0	20,200	10.5	5,960	4.1				
575	4400	2.55	29,200	17.0	27,600	16.0	25,800	15.0	23,400	13.0	19,780	11.0				
601	4600	2.78	30,800	19.5	29,600	18.5	28,000	17.5	26,000	16.0	23,800	14.5	3,720	4.7		
627	4800	3.03	32,600	22	31,400	22	30,000	21	28,200	19.5	26,400	18	19,440	13.0		
654	5000	3.29	34,200	25	33,200	25	32,000	24	30,400	23	28,800	22	24,000	17.5	3,260	5.8
686	5250	3.63	36,400	29	35,400	29	34,400	28	33,200	27	31,600	26	27,800	22	21,000	17
719	5500	3.98	38,400	34	37,600	34	36,600	33	35,400	32	34,200	31	31,000	28	26,600	24
751	5750	4.35	40,200	39	39,600	39	38,800	38	37,800	37	36,600	36	34,000	33	30,400	30
785	6000	4.74	42,400	45	41,800	44	41,000	44	40,000	43	39,000	42	36,800	40	31,600	36
816	6250	5.14	44,400	50	43,800	50	43,000	50	42,200	49	41,200	48	39,200	46	36,600	42
850	6500	5.56	46,400	58	45,600	56	45,000	56	44,400	56	43,600	54	41,800	52	39,600	50
882	6750	5.99	48,400	64	47,800	64	47,200	64	46,400	62	45,800	62	44,000	60	42,000	58
915	7000	6.45	50,200	72	49,800	72	49,200	70	48,400	70	47,800	70	46,400	68	44,600	64
980	7500	7.40	51,000	90	53,600	88	53,000	88	52,000	86	52,000	86	50,800	84	49,400	82
1047	8000	8.41			57,400	110	57,000	110	56,000	110	56,000	105	54,800	105	54,000	105
1111	8500	9.50			61,400	130	60,800	130	60,400	130	60,000	130	59,000	125	58,000	125

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
719	5500	3.98	5,840	8.4												
751	5750	4.35	25,000	24												
785	6000	4.74	29,800	31	15,020	15										
816	6250	5.14	33,400	38	28,800	33										
850	6500	5.56	36,800	45	33,200	41	5,200	13								
882	6750	5.99	39,600	51	36,600	49	25,800	34								
915	7000	6.45	42,400	62	39,800	58	32,600	47	3,040	14						
980	7500	7.40	47,600	80	45,600	76	40,200	66	31,800	52	2,380	17				
1047	8000	8.41	52,400	100	50,600	96	46,600	88	41,200	76	31,400	60	2,140	19		
1111	8500	9.50	56,800	125	55,400	120	52,200	110	47,600	105	42,600	90	28,600	68	2,560	25
1177	9000	10.67	60,800	150	60,000	145	57,200	135	53,800	130	49,400	120	43,800	105	22,600	56
1242	9500	11.89	65,200	175	64,200	170	62,000	170	59,000	160	55,600	150	51,200	135	45,800	120
1308	10000	13.17	69,400	200	68,600	200	66,600	195	61,000	190	61,000	185	57,600	170	53,200	155

Double Inlet **Double Width**

No. 7 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
124	1075	0.152	1,840	0.078												
141	1200	0.189	8,100	0.34												
165	1400	0.258	10,900	0.64	288	0.13										
188	1600	0.337	13,200	1.00	9,720	0.73										
212	1800	0.426	15,260	1.45	13,000	1.25	2,360	0.36								
235	2000	0.526	17,300	2.0	15,600	1.85	12,700	1.5	660	0.37						
259	2200	0.636	19,300	2.7	17,900	2.6	15,900	2.3	12,400	1.75	226	0.45				
282	2400	0.759	21,200	3.6	20,000	3.4	18,500	3.2	16,200	2.8	12,100	2.1	174	0.58		
306	2600	0.889	23,000	4.5	22,200	4.4	21,000	4.2	19,200	3.8	16,700	3.3	11,900	2.4		
329	2800	1.03			24,200	5.6	23,200	5.4	21,800	5.1	19,900	4.6	17,000	3.9	12,000	3.0
353	3000	1.19			26,200	6.9	25,200	6.8	24,200	6.4	22,600	6.1	20,800	5.5	18,400	4.9
376	3200	1.35			28,200	8.4	27,400	8.2	26,400	8.1	25,200	7.7	23,600	7.2	21,800	6.7
400	3400	1.52			30,000	10.0	29,400	9.9	28,400	9.7	27,400	9.6	26,400	9.0	24,800	8.5
424	3600	1.71			32,000	12.0	31,200	12.0	30,400	12	29,800	11.5	28,600	11.0	27,400	10.5
447	3800	1.90			34,000	14.5	33,200	14.0	32,600	14	31,800	13.5	31,000	13.5	29,800	13.0
471	4000	2.11					35,200	16.5	34,600	16	33,800	16.0	33,200	16.0	32,200	15.5
494	4200	2.32					37,200	19	36,400	19	36,000	18.5	35,400	18.5	34,600	18
517	4400	2.55					39,000	22	38,600	22	38,000	22	37,200	21	36,600	21
541	4600	2.78					41,000	25	40,400	25	40,000	25	39,400	24	38,800	24
565	4800	3.03							42,400	29	42,000	28	41,400	28	40,800	28
588	5000	3.29							44,400	32	44,000	32	43,400	32	42,800	31
618	5250	3.63							46,800	38	46,400	37	45,800	37	45,400	37
647	5500	3.98									48,800	43	48,200	43	47,800	42
676	5750	4.35									51,200	50	50,800	49	50,400	49
706	6000	4.74									53,400	56	53,200	56	52,800	56
735	6250	5.14											55,400	64	55,200	64
765	6500	5.56											58,000	72	57,600	72
794	6750	5.99													60,000	80

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
353	3000	1.19	10,800	2.9												
376	3200	1.35	19,500	5.8	1,940	1.8										
400	3400	1.52	23,000	7.8	17,100	5.8										
424	3600	1.71	26,000	9.9	22,200	8.4	4,720	2.9								
447	3800	1.90	28,800	12.5	25,800	11.0	21,200	8.0	2,540	3.0						
471	4000	2.11	31,200	15.0	28,800	13.5	25,400	12	19,400	9.1						
494	4200	2.32	33,600	17.5	31,600	16.5	28,800	15	25,000	13.0	7,360	5.0				
517	4400	2.55	36,000	21	34,000	19.6	31,800	18	29,000	16.5	24,400	13.5				
541	4600	2.78	38,000	24	36,400	23	34,600	22	32,000	20	29,400	18	4,600	5.8		
565	4800	3.03	40,200	27	38,800	27	37,000	25	35,000	24	32,400	22	21,000	16		
588	5000	3.29	42,400	31	41,000	31	39,600	30	37,600	28	35,600	27	29,600	22	4,020	7
618	5250	3.63	44,800	36	43,800	36	42,400	35	41,000	34	39,000	32	34,400	28	26,000	21
647	5500	3.98	47,400	42	46,400	41	45,200	41	43,800	39	42,200	38	38,400	34	32,800	29
676	5750	4.35	49,800	48	49,000	48	48,000	47	46,600	46	45,200	45	42,000	41	37,600	36
706	6000	4.74	52,400	56	51,600	54	50,600	54	49,400	52	48,200	52	45,400	48	41,600	44
735	6250	5.14	54,800	62	54,000	62	53,200	62	52,200	60	51,000	60	48,000	56	45,200	52
765	6500	5.56	57,200	70	56,200	70	55,600	70	54,800	68	53,000	68	51,600	64	48,800	62
794	6750	5.99	59,600	80	59,000	78	58,200	78	57,400	78	56,600	76	54,400	74	51,800	70
824	7000	6.45	62,000	88	61,400	88	60,600	88	60,000	86	59,200	86	57,200	84	55,000	80
882	7500	7.40	66,800	110	66,200	110	65,600	110	65,000	110	64,200	110	62,600	105	60,800	90
941	8000	8.41			70,800	130	70,400	130	69,800	135	69,200	130	67,800	130	66,400	100
1000	8500	9.50			75,800	160	75,200	160	74,600	160	71,200	155	72,800	155	71,600	150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
647	5500	3.98	7,200	10.5												
676	5750	4.35	30,800	30												
706	6000	4.74	36,800	39	18,540	19										
735	6250	5.14	41,200	47	35,600	41										
765	6500	5.56	45,400	56	41,000	50	6,420	16.5								
794	6750	5.99	48,800	66	45,200	60	32,000	42								
824	7000	6.45	52,400	76	49,200	70	40,400	58	3,760	17.5						
882	7500	7.40	58,800	98	56,200	94	49,600	82	39,400	66	2,940	21				
941	8000	8.41	64,600	125	62,600	120	57,400	110	50,800	94	38,800	72	2,640	23		
1000	8500	9.50	70,000	150	68,400	150	64,400	135	58,800	130	52,600	110	35,200	84	3,160	31
1059	9000	10.67	75,200	180	71,000	180	70,600	170	66,400	160	61,000	150	54,000	130	27,800	70
1118	9500	11.89	80,600	220	79,200	210	76,400	210	72,800	195	68,400	185	63,200	170	50,400	150
1177	10000	13.17	85,800	250	84,600	250	82,000	240	79,000	230	75,200	230	71,000	210	65,800	190

Double Inlet

No. 8 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
103	1075	0.152	2,660	0.11												
118	1200	0.189	11,700	0.49												
137	1400	0.258	15,700	0.92	416	0.18										
157	1600	0.337	19,000	1.15	11,000	1.05										
177	1800	0.426	22,000	2.1	18,700	1.8	3,400	0.53								
196	2000	0.526	25,000	2.9	22,600	2.7	18,300	2.1	950	0.53						
216	2200	0.636	27,800	3.9	25,800	3.7	22,800	3.3	17,800	2.5	326	0.61				
235	2400	0.759	30,600	5.1	29,000	4.9	26,800	4.6	23,000	4.0	17,100	3.0	250	0.81		
255	2600	0.889	33,200	6.5	32,000	6.3	30,200	6.1	27,600	5.5	24,000	4.7	17,200	3.5		
275	2800	1.03			35,000	8.0	33,400	7.8	31,400	7.3	28,800	6.6	24,600	5.6	17,400	4.4
294	3000	1.19			37,800	9.9	36,400	9.7	34,800	9.2	32,600	8.7	30,000	7.9	26,600	7.0
314	3200	1.35			40,600	12.0	39,400	12.0	38,000	11.5	36,200	11.0	34,200	10.5	31,400	9.6
333	3400	1.52			43,100	14.5	42,400	14.5	41,000	14	39,600	14.0	38,000	13	35,800	12.0
353	3600	1.71			46,000	17.5	45,000	17	44,000	17	42,800	16.5	41,200	16	39,600	15.0
373	3800	1.90			48,400	21	48,000	20	47,000	20	45,800	19.5	44,600	19	43,000	18.5
392	4000	2.11					50,800	24	50,000	23	48,800	23	47,800	23	46,400	22
412	4200	2.32					53,600	28	52,600	27	51,800	27	51,000	27	49,800	26
431	4400	2.55					56,200	32	55,600	32	54,800	31	53,800	31	52,800	30
451	4600	2.78					59,000	37	58,400	36	57,600	36	56,800	35	55,800	35
471	4800	3.03							61,200	41	60,400	41	59,600	40	59,000	40
490	5000	3.29							64,000	47	63,200	46	62,400	46	61,800	45
515	5250	3.63							67,400	51	66,800	51	66,000	54	65,400	52
540	5500	3.98									70,200	62	69,400	62	68,800	60
564	5750	4.35									73,600	72	73,200	70	72,600	70
589	6000	4.71									77,000	82	76,600	80	76,000	80
613	6250	5.11											80,000	92	79,600	90
637	6500	5.56											83,400	105	83,000	105
662	6750	5.99													86,400	115

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs per sq inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
294	3000	1.19	15,600	4.2												
314	3200	1.35	28,000	8.4	2,800	2.6										
333	3400	1.52	33,200	11	24,800	8.4										
353	3600	1.71	37,400	14	32,000	12.0	6,800	4.2								
373	3800	1.90	41,400	18	37,200	16.0	30,400	13	3,660	4.4						
392	4000	2.11	45,000	22	41,400	19.5	36,600	17	28,000	13.0						
412	4200	2.32	48,400	25	45,400	24	41,600	22	36,000	18.5	10,600	7.2				
431	4400	2.55	51,800	30	49,000	28	45,800	26	41,800	24	35,200	19				
451	4600	2.78	54,800	34	52,600	33	49,800	31	46,200	29	42,400	26	6,620	8.4		
471	4800	3.03	57,800	39	55,800	38	53,400	37	50,400	34	46,800	32	31,600	23		
490	5000	3.29	61,000	45	59,200	44	57,000	43	54,200	40	51,200	38	42,600	31	5,800	10.5
515	5250	3.63	64,600	52	63,000	52	61,000	50	59,000	48	56,200	46	49,600	40	37,100	30
540	5500	3.98	68,400	60	66,800	60	65,200	58	63,000	56	60,800	54	55,200	49	47,100	42
564	5750	4.35	71,600	70	70,400	68	69,000	68	67,200	66	65,200	64	60,600	60	51,200	52
589	6000	4.71	75,600	80	74,200	78	73,000	78	71,200	76	69,400	74	65,200	70	60,000	64
613	6250	5.11	79,900	90	78,000	90	76,600	88	74,200	86	73,600	86	69,800	82	65,200	76
637	6500	5.56	82,400	100	81,000	100	80,200	100	79,000	98	77,400	98	74,200	94	70,400	88
662	6750	5.99	86,000	115	85,000	110	83,800	110	82,800	110	81,400	110	78,400	110	74,800	100
686	7000	6.45	89,400	130	88,200	130	87,400	130	86,400	125	85,200	125	82,400	120	79,200	115
735	7500	7.40	96,000	160	95,400	155	94,400	155	93,400	150	92,400	150	90,200	150	87,800	150
785	8000	8.41			102,000	190	101,000	190	101,000	190	99,800	190	97,800	185	96,000	185
834	8500	9.50			109,000	230	108,000	230	108,000	230	107,000	230	105,000	220	103,000	220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
540	5500	3.98	10,400	15												
564	5750	4.35	41,400	43												
589	6000	4.71	53,000	56	26,800	27										
613	6250	5.11	59,400	68	51,200	58										
637	6500	5.56	65,400	80	59,000	74	9,260	24								
662	6750	5.99	70,400	91	65,200	86	16,000	62								
686	7000	6.45	75,400	110	70,800	100	58,000	84	5,400	25						
735	7500	7.40	84,600	140	81,000	135	71,600	120	56,800	94	4,240	30				
785	8000	8.41	93,000	175	90,000	170	82,800	155	73,200	135	55,800	105	3,800	34		
834	8500	9.50	101,000	220	98,400	210	92,800	200	84,800	180	75,800	160	50,800	120	4,540	41
882	9000	10.67	108,000	260	107,000	260	102,000	250	95,600	230	88,000	210	77,800	184	40,000	100
931	9500	11.89	116,000	310	114,000	310	110,000	300	105,000	280	98,800	260	91,000	240	81,400	220
980	10000	13.17	123,000	360	122,000	360	118,000	350	114,000	340	108,000	320	102,000	300	94,800	280

Double Inlet

No. 9 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H.P.
88	1075	0.152	3,600	0.145												
101	1200	0.189	15,900	0.67												
118	1400	0.258	21,400	1.25	566	0.26										
134	1600	0.337	25,800	1.95	19,100	1.40										
151	1800	0.426	30,000	2.9	25,400	2.4	1,620	0.71								
168	2000	0.526	31,000	4.0	30,600	3.7	25,000	2.9	1,290	0.72						
185	2200	0.636	37,800	5.3	35,200	5.1	31,200	4.4	24,400	3.4	444	0.87				
202	2400	0.759	41,600	7.0	39,400	6.7	36,400	6.2	31,800	5.4	23,700	4.0	340	1.15		
219	2600	0.889	45,200	8.9	43,100	8.6	41,000	8.5	37,600	7.5	32,800	6.5	23,400	4.8		
235	2800	1.03			47,400	11.0	45,400	10.5	42,800	10.0	39,000	9	33,400	7.6	23,600	6.0
252	3000	1.19			51,400	13.5	49,600	13.0	47,200	12.6	44,400	12	40,800	11	36,000	9.5
269	3200	1.35			55,200	16	53,600	16.0	51,800	16	49,700	15	46,400	14	42,800	13
286	3400	1.52			59,000	20	57,600	19.5	55,800	19	53,800	19	51,600	18	48,600	17
303	3600	1.71			62,600	24	61,200	23	60,000	23	58,400	23	56,200	22	54,600	21
319	3800	1.90			66,400	28	65,200	28	63,800	27	62,400	26	60,600	26	58,600	25
336	4000	2.11					69,000	32	67,800	32	66,400	32	65,200	31	63,000	30
353	4200	2.32					73,000	38	71,400	37	70,400	37	69,200	36	67,600	36
370	4400	2.55					76,600	44	75,600	43	74,600	42	73,200	42	71,800	41
387	4600	2.78					80,200	50	79,400	49	78,400	48	77,200	48	72,000	47
401	4800	3.03							83,200	56	82,200	56	81,200	54	80,200	51
420	5000	3.29							87,000	64	86,000	62	85,000	62	84,000	62
441	5250	3.63							91,800	74	91,000	74	89,800	72	88,800	72
462	5500	3.98									95,400	84	94,400	84	93,600	82
483	5750	4.35									100,000	98	100,000	96	98,800	96
505	6000	4.74									105,000	110	101,000	110	103,000	110
525	6250	5.14											109,000	125	108,000	125
546	6500	5.56											113,000	140	113,000	140
567	6750	5.99													118,000	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
252	3000	1.19	21,200	5.7												
269	3200	1.35	38,200	10.5	3,820	3.5										
286	3400	1.52	45,200	15.5	33,600	11.5										
303	3600	1.71	50,800	19.5	43,600	17.5	9,220	5.7								
319	3800	1.90	56,400	24	50,400	21	41,400	17.5	4,980	6						
336	4000	2.11	61,200	29	56,400	27	49,800	23	38,000	18						
353	4200	2.32	66,000	35	61,800	32	56,600	29	49,000	25	14,400	9.8				
370	4400	2.55	70,400	41	66,600	38	62,200	36	56,800	32	47,800	26				
387	4600	2.78	74,400	47	71,400	45	67,600	42	62,800	39	57,600	36	9,000	11.5		
401	4800	3.03	78,800	54	76,000	52	72,600	50	68,400	47	63,600	43	47,000	32		
420	5000	3.29	83,000	62	80,400	60	77,600	58	73,800	56	69,600	52	58,000	42	7,880	14
441	5250	3.63	87,800	72	85,800	72	83,000	68	80,200	66	76,200	62	67,400	54	51,000	41
462	5500	3.98	93,000	82	90,800	82	88,000	80	85,800	78	82,800	74	75,200	66	61,400	56
483	5750	4.35	97,600	91	96,000	94	94,000	92	93,400	90	88,600	88	82,400	80	73,800	72
505	6000	4.74	103,000	110	101,000	110	99,000	105	97,000	105	94,600	100	88,800	94	81,600	86
525	6250	5.14	107,000	175	106,000	120	104,000	120	102,000	120	100,000	115	95,000	110	88,600	105
546	6500	5.56	112,000	140	110,000	135	109,000	135	107,000	135	105,000	130	101,000	130	95,800	120
567	6750	5.99	117,000	155	116,000	155	114,000	150	113,000	150	111,000	150	107,000	145	102,000	140
589	7000	6.45	122,000	170	120,000	170	119,000	170	118,000	170	116,000	170	112,000	165	108,000	155
631	7500	7.40	131,000	220	130,000	210	128,000	210	127,000	210	126,000	210	123,000	200	119,000	200
672	8000	8.41			139,000	260	138,000	200	137,000	260	136,000	250	133,000	250	130,000	250
715	8500	9.50			149,000	320	147,000	310	146,000	310	145,000	310	143,000	300	141,000	300

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
462	5500	3.98	14,100	20												
483	5750	4.35	60,400	58												
505	6000	4.74	72,000	76	36,400	37										
525	6250	5.14	80,800	92	69,600	80										
546	6500	5.56	88,800	110	80,400	100	12,600	32								
567	6750	5.99	95,600	130	88,600	120	62,600	84								
589	7000	6.45	103,000	150	96,200	140	79,000	110	7,340	34						
631	7500	7.40	115,000	190	110,000	185	97,000	160	77,200	130	5,760	41				
672	8000	8.41	127,000	240	123,000	230	113,000	210	99,600	185	76,000	145	5,160	46		
715	8500	9.50	137,000	300	131,000	290	126,000	270	115,000	250	103,000	220	69,000	165	6,180	60
756	9000	10.67	147,000	350	145,000	350	138,000	330	130,000	320	120,000	290	106,000	250	54,600	135
799	9500	11.89	158,000	420	155,000	420	150,000	400	143,000	380	134,000	360	124,000	330	111,000	290
840	10000	13.17	168,000	490	166,000	490	161,000	480	155,000	460	148,000	440	139,000	410	129,000	380

Double Inlet **Double Width**

No. 10 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
77	1075	0.152	4,720	0.02												
88	1200	0.189	20,800	0.88												
103	1400	0.258	27,800	1.65	740	0.33										
118	1600	0.337	33,800	2.60	25,000	1.85										
132	1800	0.426	39,200	3.7	33,200	3.2	6,040	0.93								
147	2000	0.526	41,400	5.2	40,000	4.8	32,600	3.8	1,690	0.94						
162	2200	0.636	49,400	7.0	46,000	6.6	40,600	5.8	31,800	4.5	580	1.15				
176	2400	0.759	54,400	9.2	51,400	8.8	47,000	8.1	41,600	7.0	31,000	5.3	444	1.5		
191	2600	0.889	59,200	11.5	56,800	11.0	53,600	11.0	49,200	9.8	42,800	8.4	30,600	6.2		
206	2800	1.03			62,000	14.0	59,200	14.0	55,800	13.0	51,000	12.0	43,600	10.0	30,800	7.8
221	3000	1.19			67,200	17.5	64,800	17.5	61,800	16.5	58,000	15.5	53,200	14.0	47,200	12.5
235	3200	1.35			72,000	22	70,000	21	67,600	21	61,400	19.5	60,800	18.5	56,000	17.0
250	3400	1.52			77,000	26	75,200	25	73,000	25	70,400	25	67,600	23	63,600	22
265	3600	1.71			81,800	31	80,000	30	78,400	30	76,400	29	73,400	28	70,400	27
280	3800	1.90			86,800	37	85,200	36	83,400	35	81,600	35	79,200	31	76,600	33
294	4000	2.11					90,200	42	88,600	42	86,800	41	85,200	40	82,400	39
309	4200	2.32					95,200	49	93,400	48	92,000	48	90,600	47	88,400	46
324	4400	2.55					100,000	58	99,000	56	97,400	56	95,600	54	94,000	54
338	4600	2.78					105,000	66	104,000	64	102,000	64	101,000	62	99,000	62
353	4800	3.03							109,000	74	107,000	72	106,000	72	105,000	72
368	5000	3.29							114,000	84	112,000	82	111,000	82	110,000	80
386	5250	3.63							120,000	96	119,000	96	117,000	96	116,000	94
405	5500	3.98									125,000	112	123,000	110	122,000	110
423	5750	4.35									131,000	128	130,000	125	129,000	125
441	6000	4.74									137,000	144	136,000	145	135,000	145
460	6250	5.14											142,000	165	142,000	160
478	6500	5.56											148,000	185	148,000	185
496	6750	5.99													154,000	210

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
221	3000	1.19	27,800	7.5												
235	3200	1.35	50,000	15.0	4,980	4.6										
250	3400	1.52	59,000	20	44,000	15										
265	3600	1.71	66,600	25	57,000	22	12,100	7.5								
280	3800	1.90	73,800	32	66,000	26	54,000	23	6,520	7.8						
294	4000	2.11	80,000	38	73,600	35	65,200	31	40,600	23						
309	4200	2.32	86,000	45	80,800	42	74,000	38	64,200	33	18,800	13				
324	4400	2.55	92,000	54	87,000	50	81,200	47	74,200	42	62,600	31				
338	4600	2.78	97,400	62	93,400	58	88,400	56	82,000	52	75,200	46	11,800	15		
353	4800	3.03	103,000	70	99,000	68	95,000	66	89,400	62	83,000	56	61,600	42		
368	5000	3.29	108,000	80	105,000	78	101,000	78	96,400	72	91,000	68	75,800	56	10,300	18.5
386	5250	3.63	115,000	92	112,000	82	108,000	90	105,000	86	99,800	82	88,000	72	66,600	54
405	5500	3.98	121,000	110	119,000	110	116,000	104	112,000	100	108,000	98	98,200	88	84,200	74
423	5750	4.35	127,000	125	125,000	125	123,000	120	119,000	120	116,000	115	108,000	105	96,200	94
441	6000	4.74	134,000	140	132,000	140	130,000	140	127,000	135	123,000	130	116,000	125	107,000	110
460	6250	5.14	140,000	160	139,000	160	136,000	155	133,000	155	131,000	150	124,000	145	116,000	135
478	6500	5.56	146,000	180	144,000	180	143,000	175	140,000	175	138,000	170	132,000	170	125,000	155
496	6750	5.99	153,000	200	151,000	200	149,000	200	147,000	195	145,000	195	139,000	190	133,000	180
515	7000	6.45	159,000	230	157,000	230	155,000	220	154,000	220	151,000	220	146,000	210	141,000	210
552	7500	7.40	171,000	280	170,000	280	168,000	280	166,000	270	164,000	270	160,000	270	156,000	260
588	8000	8.41			182,000	340	181,000	340	179,000	340	177,000	330	174,000	330	170,000	320
625	8500	9.50			194,000	410	193,000	410	191,000	410	190,000	400	187,000	400	184,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
405	5500	3.98	18,400	27												
423	5750	4.35	78,800	76												
441	6000	4.74	94,000	98	47,600	48										
460	6250	5.14	106,000	120	91,000	105										
478	6500	5.56	116,000	145	105,000	130	16,500	42								
496	6750	5.99	125,000	170	116,000	155	81,800	110								
515	7000	6.45	134,000	195	126,000	180	103,000	150	9,600	15						
552	7500	7.40	150,000	250	144,000	240	127,000	210	101,000	170	7,520	54				
588	8000	8.41	165,000	320	160,000	310	147,000	280	130,000	240	99,200	190	6,760	60		
625	8500	9.50	179,000	390	175,000	380	165,000	350	151,000	320	135,000	280	90,200	220	8,080	78
662	9000	10.67	193,000	460	190,000	460	181,000	440	170,000	410	156,000	370	138,000	330	71,200	175
699	9500	11.89	206,000	550	201,000	550	196,000	530	187,000	500	175,000	470	162,000	430	145,000	380
735	10000	13.17	220,000	640	216,000	640	210,000	630	202,000	600	193,000	580	182,000	540	169,000	490

Double Inlet

No. 11 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
69	1075	0.152	5,960	0.25												
78	1200	0.189	26,200	1.1												
92	1400	0.258	35,200	2.1	934	0.15										
105	1600	0.337	42,800	3.2	31,600	2.4										
118	1800	0.426	49,400	4.7	42,000	4.0	7,620	1.2								
131	2000	0.526	56,200	6.5	50,600	6.0	41,200	4.8	2,140	1.2						
144	2200	0.636	62,400	8.8	58,200	8.4	51,400	7.4	40,200	5.7	734	1.45				
157	2400	0.759	68,800	11.5	65,200	11	60,200	10.5	52,600	8.9	3,920	6.60	560	1.9		
170	2600	0.880	71,800	15	71,800	14	67,800	13.5	62,000	12.5	54,000	11.5	38,800	7.9		
183	2800	1.03			78,400	18	75,000	17.5	70,600	16.5	64,000	15.0	55,200	12.5	39,000	9.9
196	3000	1.19			85,000	22	82,000	22	78,200	21	73,400	19.5	67,400	18	59,600	16
209	3200	1.35			91,000	27	88,600	27	85,200	26	81,400	25	76,800	23	70,800	22
222	3400	1.52			97,400	33	95,000	32	92,200	32	89,000	31	85,400	29	80,100	27
235	3600	1.71			103,000	40	101,000	38	99,200	38	96,400	37	92,800	36	89,000	34
248	3800	1.90			110,000	47	108,000	46	105,000	45	103,000	44	100,000	43	96,800	42
262	4000	2.11					114,000	54	112,000	52	110,000	52	107,000	52	104,000	50
275	4200	2.32					120,000	62	118,000	62	116,000	60	114,000	60	112,000	58
288	4400	2.55					126,000	72	125,000	72	123,000	70	121,000	70	119,000	68
301	4600	2.78					133,000	82	131,000	80	130,000	80	128,000	78	126,000	78
314	4800	3.03							138,000	92	136,000	92	134,000	90	133,000	90
327	5000	3.29							141,000	105	142,000	105	141,000	105	139,000	100
343	5250	3.63							152,000	125	150,000	120	149,000	120	147,000	120
360	5500	3.98									158,000	140	156,000	135	155,000	150
376	5750	4.35									166,000	160	165,000	160	163,000	155
392	6000	4.74									173,000	185	172,000	180	171,000	180
408	6250	5.14											180,000	210	179,000	200
425	6500	5.56											188,000	230	187,000	230
441	6750	5.99													191,000	260

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
196	3000	1.19	35,000	9.5												
209	3200	1.35	63,200	19	6,300	5.8										
222	3400	1.52	74,600	25	55,600	19										
235	3600	1.71	84,000	32	72,000	27	15,300	9.5								
248	3800	1.90	93,200	40	83,400	35	68,400	29	8,260	9.8						
262	4000	2.11	101,000	48	93,200	44	82,400	39	62,800	30						
275	4200	2.32	109,000	58	102,000	54	93,400	48	81,200	42	23,800	16				
288	4400	2.55	117,000	68	110,000	64	103,000	58	93,800	54	79,200	43				
301	4600	2.78	123,000	78	118,000	74	112,000	70	104,000	66	95,200	58	14,900	19		
314	4800	3.03	130,000	88	126,000	86	120,000	82	113,000	78	105,000	72	77,800	52		
327	5000	3.29	137,000	100	133,000	98	128,000	96	121,000	92	115,000	86	95,800	70	13,000	23
343	5250	3.63	145,000	115	142,000	115	137,000	110	133,000	110	126,000	105	111,000	90	84,400	68
360	5500	3.98	154,000	135	150,000	135	146,000	130	142,000	130	137,000	125	124,000	110	106,000	94
376	5750	4.35	161,000	155	159,000	155	155,000	150	151,000	150	146,000	145	136,000	130	122,000	120
392	6000	4.74	170,000	180	167,000	175	164,000	175	160,000	170	156,000	170	147,000	155	135,000	145
408	6250	5.14	178,000	200	175,000	200	172,000	200	169,000	195	165,000	190	157,000	185	147,000	170
425	6500	5.56	185,000	230	182,000	230	180,000	220	178,000	220	174,000	220	167,000	210	158,000	200
441	6750	5.99	193,000	260	191,000	260	189,000	250	186,000	250	183,000	250	176,000	240	168,000	230
458	7000	6.45	200,000	290	199,000	290	196,000	280	194,000	280	192,000	280	185,000	270	178,000	260
490	7500	7.40	216,000	300	214,000	350	212,000	350	210,000	350	208,000	340	202,000	340	197,000	330
523	8000	8.41			230,000	430	228,000	430	226,000	420	224,000	420	220,000	410	216,000	410
555	8500	9.50			246,000	520	244,000	520	242,000	510	240,000	510	236,000	500	232,000	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
360	5500	3.98	23,400	34												
376	5750	4.35	100,000	96												
392	6000	4.74	119,000	125	60,000	60										
408	6250	5.14	134,000	150	115,000	130										
425	6500	5.56	147,000	180	133,000	165	20,800	54								
441	6750	5.99	158,000	210	147,000	195	103,000	135								
458	7000	6.45	170,000	250	159,000	230	131,000	190	12,200	56						
490	7500	7.40	190,000	320	182,000	300	161,000	270	128,000	210	9,520	68				
523	8000	8.41	210,000	400	202,000	390	186,000	350	165,000	310	126,000	240	8,540	76		
555	8500	9.50	228,000	490	222,000	480	208,000	450	191,000	410	170,000	360	114,000	270	10,200	100
588	9000	10.67	241,000	580	240,000	580	228,000	550	216,000	520	198,000	470	175,000	410	90,200	220
620	9500	11.89	262,000	700	258,000	690	248,000	670	236,000	640	222,600	590	206,000	540	183,000	480
654	10000	13.17	278,000	810	274,000	810	266,000	790	256,000	760	244,000	730	230,000	680	214,000	620

Double Inlet # No. 12 Multivane Fan — Design 3 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛'' Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼'' Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜'' Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½'' Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝'' Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾'' Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞'' Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
62	1075	0.152	7,360	0.31												
71	1200	0.189	22,400	1.35												
82	1400	0.258	43,600	2.5	1,150	0.52										
94	1600	0.337	52,800	4.0	38,800	2.9										
106	1800	0.426	61,000	5.8	52,000	5.0	9,400	1.15								
118	2000	0.526	69,200	8.1	62,400	7.5	50,800	5.9	2,640	1.5						
129	2200	0.636	77,000	11	71,800	10.5	63,400	9.1	49,600	7.0	906	1.8				
141	2400	0.759	84,800	14	80,400	14.0	74,200	13	65,000	11.0	48,200	8.2	692	2.3		
153	2600	0.889	92,200	18	88,600	17.5	83,600	17	76,600	15.5	66,800	13.0	47,800	9.7		
165	2800	1.03			96,800	22	92,400	22	87,000	20	79,600	18.5	68,000	15.5	48,200	12.0
177	3000	1.19			105,000	28	101,000	27	96,400	26	90,600	24	83,000	22	73,600	19.5
188	3200	1.35			112,000	34	109,000	33	105,000	32	101,000	31	94,800	29	87,200	27
200	3400	1.52			120,000	41	117,000	40	114,000	39	110,000	39	105,000	36	99,200	34
212	3600	1.71			128,000	49	125,000	47	122,000	47	119,000	46	114,000	44	110,000	42
224	3800	1.90			136,000	58	133,000	56	130,000	56	127,000	51	124,000	51	117,000	52
235	4000	2.11					141,000	66	138,000	64	136,000	64	133,000	64	128,000	62
247	4200	2.32					149,000	78	146,000	76	144,000	74	141,000	74	138,000	72
259	4400	2.55					156,000	90	154,000	88	152,000	86	149,000	86	147,000	84
271	4600	2.78					164,000	100	162,000	100	160,000	98	157,000	98	155,000	96
282	4800	3.03							170,000	115	168,000	110	166,000	110	164,000	110
294	5000	3.29							177,000	130	176,000	130	173,000	130	171,000	125
309	5250	3.63							187,000	150	185,000	150	183,000	150	181,000	150
324	5500	3.98									195,000	170	193,000	170	191,000	170
338	5750	4.35									204,000	200	203,000	195	202,000	195
353	6000	4.74									214,000	230	212,000	220	211,000	220
368	6250	5.14											222,000	250	220,000	250
382	6500	5.56											232,000	290	230,000	290
397	6750	5.99													240,000	320

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1'' Water .578 ozs. per sq. inch		Static Pressure 1¼'' Water .723 ozs. per sq. inch		Static Pressure 1½'' Water .878 ozs. per sq. inch		Static Pressure 1¾'' Water 1.01 ozs. per sq. inch		Static Pressure 2'' Water 1.16 ozs. per sq. inch		Static Pressure 2½'' Water 1.45 ozs. per sq. inch		Static Pressure 3'' Water 1.73 ozs. per sq. inch	
177	3000	1.19	43,200	12												
188	3200	1.35	78,000	23	7,780	7.1										
200	3400	1.52	92,000	31	68,600	23										
212	3600	1.71	104,000	40	49,000	34	18,800	11.5								
224	3800	1.90	115,000	49	103,000	44	84,400	36	10,200	12						
235	4000	2.11	125,000	60	115,000	54	102,000	48	77,400	37						
247	4200	2.32	134,000	70	126,000	66	115,000	60	100,000	52	29,400	20				
259	4400	2.55	144,000	82	136,000	74	127,000	72	116,000	66	97,600	54				
271	4600	2.78	152,000	96	146,000	92	138,000	86	128,000	80	117,000	72	18,400	23		
282	4800	3.03	161,000	110	155,000	110	148,000	100	140,000	96	130,000	88	96,000	66		
294	5000	3.29	169,000	125	164,000	125	158,000	120	150,000	110	142,000	110	118,000	86		
309	5250	3.63	179,000	145	175,000	145	169,000	140	164,000	135	156,000	130	137,000	110	16,100	29
324	5500	3.98	189,000	170	185,000	165	181,000	165	175,000	155	169,000	150	153,000	135	104,000	84
338	5750	4.35	199,000	190	196,000	190	191,000	190	187,000	185	181,000	175	168,000	165	131,000	115
353	6000	4.74	210,000	220	206,000	220	202,000	220	198,000	210	193,000	210	181,000	190	150,000	145
368	6250	5.14	219,000	250	216,000	250	212,000	250	208,000	240	204,000	240	194,000	230	166,000	175
382	6500	5.56	228,000	280	226,000	280	222,000	280	220,000	270	214,000	270	206,000	260	181,000	210
397	6750	5.99	238,000	320	236,000	320	232,000	310	230,000	310	226,000	300	218,000	290	195,000	240
412	7000	6.45	248,000	350	246,000	350	242,000	350	240,000	350	236,000	340	228,000	330	208,000	280
441	7500	7.40	266,000	440	264,000	440	262,000	430	260,000	430	256,000	420	250,000	420	220,000	320
471	8000	8.41			284,000	530	282,000	530	280,000	520	276,000	520	272,000	510	244,000	410
500	8500	9.50			304,000	640	300,000	640	298,000	630	296,000	630	292,000	620	266,000	510
															286,000	610

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½'' Water 2.02 ozs. per sq. inch		Static Pressure 4'' Water 2.31 ozs. per sq. inch		Static Pressure 5'' Water 2.89 ozs. per sq. inch		Static Pressure 6'' Water 3.47 ozs. per sq. inch		Static Pressure 7'' Water 4.05 ozs. per sq. inch		Static Pressure 8'' Water 4.63 ozs. per sq. inch		Static Pressure 9'' Water 5.2 ozs. per sq. inch	
324	5500	3.98	28,800	42												
338	5750	4.35	123,000	120												
353	6000	4.74	147,000	150	74,200	74										
368	6250	5.14	165,000	190	142,000	165										
382	6500	5.56	181,000	220	164,000	200	25,600	66								
397	6750	5.99	195,000	260	185,000	240	128,000	170								
412	7000	6.45	210,000	300	197,000	280	161,000	230	15,000	70						
441	7500	7.40	231,000	390	226,000	380	199,000	330	157,000	260	11,700	84				
471	8000	8.41	258,000	490	250,000	480	230,000	430	204,000	380	155,000	290	10,500	94		
500	8500	9.50	280,000	600	274,000	590	258,000	550	236,000	500	210,000	440	141,000	340	12,600	125
530	9000	10.67	300,000	720	296,000	710	282,000	680	266,000	640	244,000	580	216,000	510	144,000	280
559	9500	11.89	322,000	860	318,000	850	306,000	820	292,000	780	274,000	730	252,000	670	226,000	600
588	10000	13.17	344,000	1000	338,000	1000	328,000	980	316,000	940	302,000	900	284,000	840	264,000	770

Double Inlet **Double Width**

No. 13 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1075	0.152	8,920	0.38												
64	1200	0.189	39,400	1.65												
75	1400	0.258	52,800	3.1	1,400	0.63										
86	1600	0.337	61,000	4.8	47,200	3.5										
96	1800	0.426	74,000	7.1	62,000	6.0	11,400	1.75								
107	2000	0.526	84,000	9.8	76,000	9.0	61,600	7.2	3,200	1.8						
118	2200	0.636	93,600	13.0	87,000	12.5	77,000	11	60,000	8.6	1,100	2.2				
128	2400	0.759	103,000	17.5	97,400	16.5	90,000	15	78,800	13	58,600	10	840	2.8		
139	2600	0.889	112,000	22	107,000	21	101,000	20	93,000	19	81,000	16	58,000	10		
150	2800	1.03			117,000	27	112,000	26	106,000	25	96,800	22	82,000	19	58,400	15
160	3000	1.19			127,000	33	123,000	33	117,000	31	110,000	29	101,000	27	89,200	24
171	3200	1.35			136,000	41	133,000	40	128,000	39	122,000	37	115,000	35	106,000	32
182	3400	1.52			146,000	49	142,000	48	138,000	47	133,000	47	128,000	44	121,000	41
193	3600	1.71			155,000	60	152,000	58	148,000	56	144,000	56	139,000	54	133,000	52
203	3800	1.90			164,000	70	161,000	68	158,000	66	154,000	66	150,000	64	145,000	62
214	4000	2.11					171,000	80	168,000	78	165,000	78	161,000	76	156,000	74
225	4200	2.32					180,000	94	177,000	92	174,000	90	171,000	90	167,000	88
236	4400	2.55					189,000	110	187,000	110	184,000	105	181,000	105	178,000	105
246	4600	2.78					199,000	125	196,000	120	194,000	120	191,000	120	188,000	115
257	4800	3.03							206,000	140	201,000	135	202,000	135	198,000	135
268	5000	3.29							216,000	155	214,000	155	210,000	150	208,000	150
281	5250	3.63							226,000	185	224,000	180	222,000	180	220,000	175
294	5500	3.98									236,000	210	234,000	210	232,000	210
308	5750	4.35									248,000	240	246,000	240	244,000	240
321	6000	4.74									260,000	280	258,000	270	256,000	270
334	6250	5.14											270,000	310	268,000	310
348	6500	5.56											282,000	350	280,000	350
361	6750	5.99													292,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
160	3000	1.19	52,400	14												
171	3200	1.35	84,600	28	9,440	8.7										
182	3400	1.52	112,000	38	83,200	28										
193	3600	1.71	126,000	48	108,000	41	22,800	14								
203	3800	1.90	140,000	60	125,000	52	103,000	43	12,300	15						
214	4000	2.11	152,000	72	139,000	66	123,000	58	94,000	44						
225	4200	2.32	163,000	86	153,000	80	140,000	72	121,000	62	35,600	24				
236	4400	2.55	174,000	100	165,000	96	154,000	88	140,000	80	118,000	66				
246	4600	2.78	184,000	115	177,000	110	167,000	105	155,000	98	142,000	88	22,400	28		
257	4800	3.03	195,000	130	188,000	130	180,000	125	169,000	110	157,000	110	116,000	78		
268	5000	3.29	206,000	150	199,000	150	192,000	145	183,000	135	172,000	130	143,000	105	19,500	35
281	5250	3.63	218,000	175	212,000	170	206,000	170	199,000	165	189,000	155	167,000	135	126,000	105
294	5500	3.98	230,000	200	226,000	200	220,000	200	212,000	190	204,000	185	186,000	165	159,000	140
308	5750	4.35	242,000	240	238,000	230	232,000	230	226,000	220	220,000	220	204,000	200	182,000	175
321	6000	4.74	254,000	270	250,000	260	246,000	260	240,000	260	234,000	250	220,000	240	202,000	210
334	6250	5.14	266,000	300	262,000	300	258,000	300	254,000	290	248,000	290	236,000	270	220,000	250
348	6500	5.56	278,000	340	274,000	340	270,000	340	266,000	330	260,000	330	250,000	320	236,000	300
361	6750	5.99	290,000	380	286,000	380	282,000	380	278,000	370	274,000	370	264,000	360	252,000	340
374	7000	6.45	300,000	430	298,000	430	294,000	420	290,000	420	286,000	410	278,000	400	286,000	390
401	7500	7.40	324,000	540	322,000	530	318,000	530	314,000	520	312,000	520	304,000	510	296,000	500
428	8000	8.41			344,000	640	342,000	640	340,000	640	336,000	630	330,000	620	322,000	610
455	8500	9.50			368,000	780	366,000	770	362,000	770	360,000	760	354,000	750	318,000	740

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
294	5500	3.98	35,000	50												
308	5750	4.35	149,000	145												
321	6000	4.74	178,000	190	90,000	90										
334	6250	5.14	200,000	230	172,000	195										
348	6500	5.56	220,000	270	199,000	250	31,200	80								
361	6750	5.99	236,000	320	220,000	290	155,000	210								
374	7000	6.45	254,000	370	238,000	340	196,000	280	18,200	86						
401	7500	7.40	286,000	480	274,000	460	242,000	400	191,000	320	14,200	100				
428	8000	8.41	314,000	600	304,000	580	280,000	530	246,000	460	188,000	350	12,800	110		
455	8500	9.50	340,000	730	332,000	710	312,000	670	286,000	610	256,000	540	171,000	410	15,300	150
481	9000	10.67	366,000	880	360,000	870	342,000	830	322,000	780	296,000	710	262,000	620	135,000	340
508	9500	11.89	392,000	1040	384,000	1040	370,000	1000	354,000	950	332,000	890	306,000	810	274,000	720
535	10000	13.17	416,000	1220	410,000	1210	398,000	1190	384,000	1140	366,000	1090	346,000	1020	320,000	940

Double Inlet **Double Width**

No. 14 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
52	1075	0.152	10,600	0.45												
59	1200	0.189	46,800	2.00												
69	1400	0.258	62,800	3.7	1,660	0.75										
78	1600	0.337	76,000	5.8	56,000	4.2										
88	1800	0.426	88,000	8.1	74,800	7.2	13,600	2.1								
98	2000	0.526	100,000	11.5	90,000	11	73,100	8.6	3,800	2.1						
108	2200	0.636	111,000	16	101,000	15	91,600	13.0	71,400	10	1,210	2.6				
118	2400	0.759	122,000	21	116,000	20	107,000	18.5	93,600	16	69,600	12	998	3.4		
128	2600	0.889	133,000	26	128,000	25	121,000	24	110,000	22	96,000	19	69,000	11		
137	2800	1.03			140,000	32	133,000	31	126,000	29	115,000	27	98,000	23	69,600	17.5
147	3000	1.19			151,000	40	146,000	39	139,000	37	131,000	35	120,000	32	106,000	28
151	3200	1.35			162,000	48	158,000	48	152,000	46	145,000	41	137,000	41	126,000	39
167	3400	1.52			173,000	58	169,000	58	164,000	56	158,000	56	152,000	52	143,000	49
177	3600	1.71			184,000	70	180,000	68	176,000	68	172,000	66	165,000	64	159,000	62
186	3800	1.90			195,000	84	192,000	82	188,000	80	184,000	78	178,000	76	172,000	74
196	4000	2.11					204,000	96	199,000	94	195,000	92	191,000	90	185,000	88
206	4200	2.32					214,000	110	210,000	110	208,000	110	204,000	110	199,000	105
216	4400	2.55					226,000	130	222,000	130	220,000	125	214,000	125	212,000	120
226	4600	2.78					236,000	150	234,000	145	230,000	145	226,000	140	224,000	140
235	4800	3.03							244,000	165	242,000	165	238,000	160	236,000	160
245	5000	3.29							256,000	190	254,000	185	250,000	185	248,000	180
257	5250	3.63							270,000	220	268,000	220	264,000	210	262,000	210
270	5500	3.98									280,000	250	278,000	250	276,000	240
282	5750	4.35									294,000	290	292,000	280	290,000	280
294	6000	4.74									308,000	330	306,000	320	304,000	320
306	6250	5.14											320,000	370	318,000	360
319	6500	5.56											334,000	410	332,000	410
331	6750	5.99													346,000	460

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
147	3000	1.19	62,400	17												
151	3200	1.35	112,000	34	11,200	10										
167	3400	1.52	133,000	45	98,800	34										
177	3600	1.71	150,000	58	128,000	49	27,200	17								
186	3800	1.90	166,000	72	149,000	62	122,000	52	14,700	17.5						
196	4000	2.11	180,000	86	166,000	78	147,000	68	112,000	52						
206	4200	2.32	194,000	100	182,000	94	166,000	86	144,000	74	42,400	29				
216	4400	2.55	208,000	120	196,000	110	183,000	105	167,000	94	141,000	78				
226	4600	2.78	220,000	135	210,000	130	199,000	125	185,000	115	169,000	105	26,600	33		
235	4800	3.03	232,000	155	224,000	150	214,000	150	202,000	135	187,000	130	138,000	94		
245	5000	3.29	244,000	180	236,000	175	228,000	170	218,000	165	204,000	150	170,000	125	23,200	41
257	5250	3.63	258,000	210	252,000	210	244,000	200	236,000	190	224,000	185	198,000	160	150,000	120
270	5500	3.98	274,000	240	268,000	240	260,000	240	252,000	230	244,000	220	220,000	195	189,000	170
282	5750	4.35	286,000	280	282,000	280	276,000	270	268,000	270	260,000	260	242,000	240	216,000	210
294	6000	4.74	302,000	320	298,000	310	292,000	310	286,000	300	278,000	300	262,000	280	240,000	250
306	6250	5.14	316,000	360	312,000	360	306,000	350	300,000	350	294,000	340	280,000	330	260,000	300
319	6500	5.56	330,000	410	324,000	400	320,000	400	316,000	390	310,000	390	296,000	370	282,000	350
331	6750	5.99	344,000	460	340,000	450	336,000	450	332,000	440	326,000	440	314,000	430	300,000	410
343	7000	6.45	358,000	510	354,000	510	350,000	510	346,000	500	340,000	490	330,000	480	316,000	460
368	7500	7.40	384,000	640	382,000	630	378,000	630	374,000	620	370,000	610	360,000	600	352,000	590
392	8000	8.41			410,000	760	406,000	760	404,000	760	400,000	750	392,000	740	384,000	730
416	8500	9.50			438,000	930	434,000	920	430,000	910	428,000	900	420,000	890	414,000	890

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
270	5500	3.98	41,600	60												
282	5750	4.35	178,000	170												
294	6000	4.71	212,000	220	107,000	110										
306	6250	5.14	238,000	270	204,000	230										
319	6500	5.56	262,000	320	236,000	290	37,000	94								
331	6750	5.99	282,000	380	260,000	350	184,000	240								
343	7000	6.45	302,000	440	284,000	410	232,000	330	21,600	100						
368	7500	7.40	338,000	570	324,000	540	286,000	470	226,000	380	16,900	120				
392	8000	8.41	372,000	710	360,000	690	332,000	620	292,000	550	224,000	420	15,200	135		
416	8500	9.50	404,000	870	394,000	850	372,000	800	340,000	730	302,000	640	204,000	490	18,200	175
441	9000	10.67	434,000	1040	428,000	1030	406,000	980	382,000	930	352,000	840	312,000	740	160,000	400
465	9500	11.89	464,000	1240	456,000	1230	440,000	1180	420,000	1130	394,000	1060	364,000	970	326,000	800
490	10000	13.17	494,000	1450	488,000	1440	474,000	1410	456,000	1350	434,000	1300	410,000	1210	380,000	1110

Double Inlet **Double Width**

No. 15 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
48	1075	0.152	12,400	0.53												
54	1200	0.189	54,800	2.3												
63	1400	0.258	73,400	4.3	1,950	0.88										
72	1600	0.337	89,000	6.8	65,600	4.9										
81	1800	0.426	103,000	9.9	88,000	8.4	15,900	2.5								
91	2000	0.526	117,000	14	106,000	15.5	86,000	10.0	4,460	2.5						
99	2200	0.636	130,000	18	121,000	17	107,000	15.5	83,600	12.0	1,530	3				
109	2400	0.759	143,000	24	136,000	23	125,000	21	110,000	18.5	81,600	14	1,170	3.9		
118	2600	0.889	156,000	31	150,000	30	141,000	28	129,000	26	113,000	22	80,800	16.5		
127	2800	1.03			164,000	38	156,000	37	147,000	34	135,000	31	115,000	26	84,100	21
136	3000	1.19			177,000	47	171,000	46	163,000	41	153,000	41	140,000	37	124,000	33
145	3200	1.35			190,000	56	185,000	56	178,000	54	170,000	52	160,000	49	147,000	45
154	3400	1.52			204,000	68	198,000	68	192,000	66	185,000	66	148,000	62	168,000	58
163	3600	1.71			216,000	82	212,000	80	206,000	80	202,000	78	194,000	74	184,000	72
172	3800	1.90			228,000	98	224,000	96	220,000	94	216,000	92	210,000	90	202,000	86
181	4000	2.11					238,000	110	234,000	110	230,000	110	224,000	110	218,000	105
190	4200	2.32					252,000	130	246,000	130	242,000	130	238,000	125	234,000	125
199	4400	2.55					264,000	150	260,000	150	256,000	150	252,000	145	248,000	140
208	4600	2.78					276,000	170	274,000	170	270,000	170	266,000	165	262,000	165
217	4800	3.03							288,000	190	284,000	190	280,000	190	276,000	190
226	5000	3.29							300,000	220	296,000	220	294,000	210	290,000	210
238	5250	3.63							316,000	260	314,000	250	310,000	250	306,000	250
249	5500	3.98									330,000	290	326,000	290	322,000	290
260	5750	4.35									346,000	340	342,000	330	340,000	330
272	6000	4.74									362,000	380	360,000	380	356,000	380
283	6250	5.14											376,000	430	374,000	430
294	6500	5.56											392,000	490	398,000	480
305	6750	5.99													406,000	540

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
136	3000	1.19	73,000	20												
145	3200	1.35	132,000	40	12,100	12										
154	3400	1.52	155,000	52	116,000	39										
163	3600	1.71	175,000	68	150,000	56	31,800	20								
172	3800	1.90	194,000	84	174,000	74	143,000	60	17,200	21						
181	4000	2.11	212,000	100	194,000	82	172,000	80	131,000	62						
190	4200	2.32	228,000	120	212,000	110	195,000	100	169,000	88	49,600	34				
199	4400	2.55	242,000	140	230,000	130	214,000	125	195,000	110	165,000	90				
208	4600	2.78	256,000	160	246,000	155	234,000	150	216,000	135	198,000	125	31,000	39		
217	4800	3.03	272,000	185	262,000	180	250,000	170	236,000	160	220,000	150	162,000	110		
226	5000	3.29	286,000	210	278,000	210	268,000	200	254,000	190	240,000	180	200,000	150	27,200	48
238	5250	3.63	302,000	250	296,000	240	286,000	240	276,000	230	264,000	220	232,000	190	176,000	145
249	5500	3.98	320,000	280	314,000	280	306,000	280	296,000	270	286,000	260	258,000	230	222,000	195
260	5750	4.35	336,000	340	330,000	320	324,000	320	316,000	310	306,000	300	284,000	280	254,000	250
272	6000	4.74	354,000	370	348,000	370	342,000	370	334,000	360	326,000	350	308,000	330	280,000	300
283	6250	5.11	370,000	420	366,000	420	360,000	410	352,000	410	344,000	400	328,000	380	306,000	350
294	6500	5.56	386,000	480	380,000	470	376,000	470	370,000	460	362,000	460	348,000	440	330,000	410
305	6750	5.99	402,000	540	398,000	530	394,000	530	388,000	520	382,000	510	368,000	500	350,000	480
317	7000	6.45	418,000	600	414,000	600	410,000	590	406,000	580	400,000	580	386,000	560	372,000	540
340	7500	7.40	450,000	740	448,000	740	422,000	730	438,000	720	434,000	720	424,000	710	412,000	690
362	8000	8.41			480,000	900	476,000	890	472,000	890	468,000	870	458,000	860	450,000	850
384	8500	9.50			512,000	1090	508,000	1080	504,000	1070	500,000	1060	492,000	1050	484,000	1040

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
249	5500	3.98	48,600	70												
260	5750	4.35	208,000	200												
272	6000	4.74	248,000	260	125,000	130										
283	6250	5.11	278,000	320	240,000	270										
294	6500	5.56	306,000	380	278,000	340	43,400	110								
305	6750	5.99	330,600	410	306,000	410	216,000	290								
317	7000	6.45	354,000	520	332,000	480	272,000	390	25,400	120						
340	7500	7.40	396,000	660	380,000	630	336,000	550	266,000	440	19,800	140				
362	8000	8.41	436,000	830	422,000	810	388,000	730	344,000	640	262,000	490	17,800	160		
384	8500	9.50	474,000	1020	462,000	990	436,000	930	398,000	850	354,000	750	238,000	570	21,200	210
407	9000	10.67	508,000	1220	500,000	1210	476,000	1150	448,000	1090	412,000	990	366,000	800	188,000	470
430	9500	11.89	544,000	1450	536,000	1140	516,000	1390	492,000	1320	462,000	1240	428,000	1130	382,000	1010
452	10000	13.17	580,000	1690	572,000	1690	556,000	1650	534,000	1590	508,000	1520	480,000	1420	444,000	1300

Double Inlet

No. 16 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
41	1075	0.152	14,400	0.61												
50	1200	0.189	63,600	2.7												
59	1400	0.258	85,200	5.0	2,260	1.0										
67	1600	0.337	103,000	7.8	76,200	5.7										
76	1800	0.426	120,000	14	102,000	9.7	18,400	2.9								
84	2000	0.526	136,000	16	122,000	11.5	100,000	11.5	5,180	2.9						
93	2200	0.636	151,000	21	141,000	20	124,000	18	97,000	14	1,780	3.5				
101	2400	0.759	166,000	28	157,000	27	145,000	25	127,000	22	94,600	16	1,360	4.6		
109	2600	0.889	184,000	36	164,000	35	164,000	33	150,000	30	131,000	26	93,600	19		
118	2800	1.03			190,000	44	181,000	42	171,000	40	156,000	36	133,000	31	94,400	24
126	3000	1.19			206,000	54	198,000	54	189,000	50	177,000	47	163,000	43	141,000	38
134	3200	1.35			220,000	66	214,000	64	206,000	64	197,000	60	186,000	56	171,000	52
143	3400	1.52			236,000	80	230,000	78	224,000	76	216,000	76	206,000	70	195,000	66
151	3600	1.71			250,000	96	246,000	92	240,000	92	231,000	90	224,000	86	216,000	84
160	3800	1.90			266,000	110	260,000	110	254,000	110	250,000	110	242,000	105	234,000	100
168	4000	2.11					276,000	130	272,000	130	266,000	120	260,000	125	254,000	120
176	4200	2.32					292,000	150	286,000	150	282,000	150	278,000	145	270,000	145
185	4400	2.55					306,000	175	302,000	170	298,000	170	292,000	170	288,000	165
193	4600	2.78					322,000	200	318,000	195	314,000	195	308,000	190	304,000	190
202	4800	3.03							332,000	220	328,000	220	324,000	220	320,000	220
210	5000	3.29							348,000	250	344,000	250	340,000	250	336,000	250
220	5250	3.63							366,000	300	364,000	290	360,000	290	356,000	290
231	5500	3.98									382,000	340	378,000	330	374,000	330
242	5750	4.35									400,000	390	398,000	380	394,000	380
252	6000	4.74									420,000	440	416,000	440	414,000	440
263	6250	5.14											436,000	500	434,000	490
273	6500	5.56											454,000	560	452,000	560
284	6750	5.99													470,000	630

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
126	3000	1.19	84,800	23												
134	3200	1.35	153,000	46	15,200	14										
143	3400	1.52	180,000	62	134,000	46										
151	3600	1.71	204,000	78	174,000	66	37,000	23								
160	3800	1.90	226,000	96	202,000	86	166,000	70	20,000	24						
168	4000	2.11	246,000	115	226,000	110	199,000	98	152,000	72						
176	4200	2.32	264,000	140	248,000	130	226,000	115	196,000	100	57,000	39				
185	4400	2.55	282,000	165	266,000	150	248,000	145	226,000	130	191,000	105				
193	4600	2.78	298,000	190	286,000	180	270,000	170	252,000	155	230,000	145	36,000	46		
202	4800	3.03	314,000	210	304,000	210	290,000	200	274,000	190	254,000	175	188,000	130		
210	5000	3.29	332,000	250	322,000	240	310,000	230	296,000	220	278,000	210	232,000	170	31,600	56
220	5250	3.63	352,000	280	344,000	290	332,000	270	320,000	260	306,000	250	270,000	220	204,000	165
231	5500	3.98	372,000	330	364,000	330	354,000	320	344,000	310	332,000	300	300,000	270	258,000	230
242	5750	4.35	390,000	380	384,000	370	370,000	370	366,000	360	354,000	350	330,000	320	294,000	290
252	6000	4.74	410,000	430	404,000	430	396,000	420	388,000	410	378,000	410	356,000	380	326,000	350
263	6250	5.14	430,000	490	424,000	480	416,000	490	408,000	470	400,000	460	380,000	440	354,000	410
273	6500	5.56	448,000	550	440,000	550	436,000	540	430,000	540	420,000	530	404,000	510	382,000	480
284	6750	5.99	466,000	620	462,000	620	456,000	610	450,000	600	442,000	600	426,000	580	406,000	550
294	7000	6.45	486,000	700	482,000	690	476,000	690	470,000	680	464,000	670	448,000	650	430,000	630
315	7500	7.40	522,000	860	518,000	860	514,000	860	508,000	840	502,000	830	492,000	820	478,000	800
336	8000	8.41			556,000	1040	552,000	1030	548,000	1030	542,000	1010	532,000	1000	522,000	990
357	8500	9.50			594,000	1280	590,000	1250	586,000	1240	582,000	1230	572,000	1220	562,000	1200

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
231	5500	3.98	56,400	82												
242	5750	4.35	242,000	230												
252	6000	4.74	288,000	300	11,500	150										
263	6250	5.14	324,000	370	278,000	320										
273	6500	5.56	356,000	440	322,000	400	50,400	130								
284	6750	5.99	382,000	510	354,000	470	250,000	330								
294	7000	6.45	410,000	600	386,000	550	316,000	450	29,400	135						
315	7500	7.40	460,000	770	442,000	740	390,000	640	308,000	510	23,000	165				
336	8000	8.41	506,000	970	490,000	940	450,000	850	398,000	740	304,000	570	20,600	185		
357	8500	9.50	550,000	1180	536,000	1150	504,000	1080	462,000	990	412,000	870	276,000	660	24,800	240
378	9000	10.67	590,000	1420	580,000	1400	552,000	1330	520,000	1260	478,000	1150	424,000	1000	218,000	540
397	9500	11.89	632,000	1600	622,000	1670	600,000	1610	572,000	1540	536,000	1440	498,000	1310	444,000	1170
420	10000	13.17	672,000	1970	664,000	1960	644,000	1920	620,000	1840	590,000	1760	558,000	1640	516,000	1510

Double Inlet

No. 17 Multivane Fan — Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
41	1075	0.152	16,600	0.71												
47	1200	0.189	73,000	3.1												
55	1400	0.258	98,000	5.7	2,600	1.2										
63	1600	0.337	119,000	9.0	87,600	6.5										
71	1800	0.426	137,000	13	117,000	11	21,200	3.3								
78	2000	0.526	156,000	18	141,000	17	111,000	13	5,940	3.3						
86	2200	0.636	171,000	25	162,000	23	143,000	20	111,000	16	2,040	4.0				
94	2400	0.759	191,000	32	181,000	31	167,000	29	146,000	25	100,000	18.5	1,560	5.2		
102	2600	0.889	208,000	41	199,000	40	188,000	38	173,000	35	150,000	30	108,000	22		
110	2800	1.03			218,000	50	208,000	49	196,000	46	179,000	42	153,000	35	109,000	27
118	3000	1.19			236,000	62	228,000	60	218,000	58	204,000	54	187,000	50	166,000	44
126	3200	1.35			254,000	76	246,000	74	238,000	72	226,000	70	211,000	64	197,000	60
133	3400	1.52			270,000	92	264,000	90	256,000	88	248,000	86	238,000	82	224,000	76
141	3600	1.71			288,000	110	282,000	110	276,000	105	268,000	105	258,000	100	248,000	96
149	3800	1.90			306,000	130	300,000	130	294,000	125	286,000	125	278,000	120	270,000	115
157	4000	2.11					308,000	150	312,000	145	306,000	145	300,000	145	290,000	140
165	4200	2.32					334,000	170	328,000	170	324,000	165	318,000	170	310,000	165
173	4400	2.55					352,000	200	348,000	195	342,000	195	336,000	190	330,000	190
181	4600	2.78					368,000	230	364,000	230	360,000	220	354,000	220	350,000	220
188	4800	3.03							382,000	260	378,000	260	371,000	250	368,000	250
196	5000	3.29							400,000	290	396,000	290	390,000	290	386,000	280
206	5250	3.63							420,000	340	418,000	340	412,000	330	408,000	330
216	5500	3.98									438,000	390	434,000	380	430,000	380
226	5750	4.35									460,000	450	458,000	440	454,000	440
235	6000	4.74									482,000	510	480,000	510	476,000	500
245	6250	5.14											500,000	570	498,000	570
255	6500	5.56											522,000	650	518,000	640
265	6750	5.99													550,000	720

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
118	3000	1.19	97,000	26												
126	3200	1.35	176,000	52	17,500	16										
133	3400	1.52	208,000	70	155,000	52										
141	3600	1.71	234,000	90	200,000	76	42,400	26								
149	3800	1.90	260,000	115	232,000	98	190,000	80	23,000	27						
157	4000	2.11	282,000	135	258,000	125	230,000	110	174,000	82						
165	4200	2.32	302,000	160	284,000	150	260,000	135	226,000	115	66,000	45				
173	4400	2.55	324,000	190	306,000	175	280,000	165	260,000	150	220,000	120				
181	4600	2.78	342,000	220	328,000	210	310,000	195	288,000	180	264,000	165	41,400	52		
188	4800	3.03	362,000	250	348,000	240	334,000	230	314,000	210	292,000	195	216,000	150		
196	5000	3.29	380,000	280	370,000	280	356,000	270	340,000	250	320,000	240	266,000	195	36,000	64
206	5250	3.63	401,000	330	394,000	320	382,000	310	368,000	300	350,000	290	310,000	250	234,000	190
216	5500	3.98	426,000	380	418,000	370	408,000	370	394,000	350	380,000	340	346,000	310	296,000	260
226	5750	4.35	448,000	440	440,000	430	432,000	420	420,000	420	408,000	400	378,000	370	338,000	330
235	6000	4.74	472,000	500	464,000	490	456,000	490	446,000	480	434,000	470	408,000	440	371,000	400
245	6250	5.14	494,000	500	488,000	560	480,000	550	470,000	540	460,000	530	436,000	510	406,000	470
255	6500	5.56	516,000	640	508,000	630	502,000	620	494,000	620	484,000	610	464,000	580	440,000	550
265	6750	5.99	538,000	710	532,000	710	524,000	700	518,000	690	508,000	690	490,000	660	468,000	630
274	7000	6.45	558,000	800	554,000	790	546,000	790	540,000	780	532,000	770	514,000	750	496,000	720
294	7500	7.40	602,000	990	596,000	990	590,000	980	584,000	960	578,000	960	564,000	940	518,000	920
314	8000	8.41			640,000	1190	634,000	1190	628,000	1180	624,000	1160	610,000	1150	598,000	1140
333	8500	9.50			684,000	1450	678,000	1430	672,000	1420	668,000	1410	656,000	1400	646,000	1380

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
216	5500	3.98	64,800	94												
226	5750	4.35	278,000	270												
235	6000	4.74	330,000	350	167,000	170										
245	6250	5.14	372,000	420	320,000	370										
255	6500	5.56	408,000	510	370,000	460	57,800	150								
265	6750	5.99	440,000	590	406,000	540	288,000	380								
274	7000	6.45	472,000	690	442,000	640	364,000	520	33,800	160						
294	7500	7.40	528,000	880	506,000	840	448,000	740	354,000	590	26,400	190				
314	8000	8.41	582,000	1110	564,000	1070	518,000	980	458,000	850	348,000	660	23,800	210		
333	8500	9.50	630,000	1360	616,000	1320	580,000	1240	530,000	1340	472,000	1000	318,000	760	28,400	280
353	9000	10.67	678,000	1620	666,000	1610	636,000	1530	598,000	1450	550,000	1320	486,000	1150	250,000	620
372	9500	11.89	726,000	1940	714,000	1920	688,000	1850	656,000	1760	616,000	1650	570,000	1510	510,000	1350
392	10000	13.17	772,000	2260	762,000	2240	740,000	2200	712,000	2120	678,000	2020	640,000	1890	592,000	1740

Double Inlet

No. 18 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
39	1075	0.152	18,800	0.8												
44	1200	0.189	83,000	3.5												
52	1400	0.258	111,000	6.5	2,960	1.35										
59	1600	0.337	135,000	10	99,600	7.4										
66	1800	0.426	156,000	15	133,000	13	24,200	3.7								
74	2000	0.526	177,000	21	160,000	19	130,000	15	6,760	3.8						
81	2200	0.636	197,000	28	181,000	26	163,000	23	127,000	18	2,320	4.6				
88	2400	0.759	218,000	37	206,000	35	190,000	33	166,000	28	124,000	21	1,770	6		
96	2600	0.889	236,000	47	226,000	45	214,000	43	196,000	39	161,000	34	121,000	25		
103	2800	1.03			248,000	56	236,000	56	224,000	52	201,000	47	174,000	40	123,000	31
110	3000	1.19			268,000	70	260,000	70	248,000	66	232,000	62	214,000	56	188,000	50
118	3200	1.35			288,000	86	280,000	84	276,000	82	258,000	78	242,000	71	221,000	68
125	3400	1.52			308,000	105	300,000	100	292,000	100	282,000	100	270,000	92	251,000	86
132	3600	1.71			328,000	125	320,000	120	314,000	120	306,000	115	294,000	110	282,000	110
140	3800	1.90			348,000	150	340,000	145	334,000	140	326,000	140	318,000	135	306,000	130
147	4000	2.11					360,000	170	354,000	165	348,000	165	340,000	160	330,400	155
154	4200	2.32					380,000	195	374,000	190	368,000	190	362,000	190	354,000	185
162	4400	2.55					400,000	230	396,000	220	390,000	220	382,000	220	376,000	220
169	4600	2.78					420,000	260	416,000	260	410,000	250	404,000	250	398,000	250
176	4800	3.03							436,000	290	430,000	290	424,000	290	418,000	280
184	5000	3.29							456,000	330	450,000	330	444,000	320	440,000	320
193	5250	3.63							480,000	390	476,000	380	470,000	380	464,000	380
202	5500	3.98									500,000	440	494,000	410	490,000	430
212	5750	4.35									524,000	510	520,000	500	516,000	500
221	6000	4.74									548,000	580	544,000	580	540,000	570
230	6250	5.14											568,000	650	566,000	650
239	6500	5.56											594,000	740	590,000	730
248	6750	5.99													614,000	820

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
110	3000	1.19	111,000	30												
118	3200	1.35	200,000	60	19,900	18										
125	3400	1.52	236,000	80	176,000	60										
132	3600	1.71	266,000	100	228,000	86	48,200	30								
140	3800	1.90	294,000	130	264,000	110	216,000	92	26,000	31						
147	4000	2.11	320,000	150	294,000	140	260,000	125	198,000	94						
154	4200	2.32	344,000	180	324,000	170	296,000	150	258,000	130	75,200	52				
162	4400	2.55	368,000	210	348,000	200	326,000	190	296,000	170	250,000	135				
169	4600	2.78	370,000	240	374,000	230	354,000	220	328,000	210	300,000	185	47,200	60		
176	4800	3.03	412,000	280	396,000	270	380,000	260	358,000	240	332,000	220	246,000	170		
184	5000	3.29	434,000	320	420,000	310	406,000	300	386,000	290	364,000	270	302,000	220	41,200	74
193	5250	3.63	460,000	370	484,000	370	434,000	360	420,000	340	400,000	330	352,000	280	266,000	220
202	5500	3.98	486,000	430	474,000	420	464,000	420	448,000	400	432,000	390	392,000	350	336,000	300
212	5750	4.35	510,000	500	502,000	490	490,000	480	478,000	470	464,000	460	432,000	420	386,000	370
221	6000	4.74	536,000	560	538,000	560	518,000	550	506,000	540	494,000	530	464,000	500	426,000	450
230	6250	5.14	562,000	640	554,000	630	544,000	630	534,000	620	522,000	610	496,000	580	464,000	540
239	6500	5.56	586,000	720	576,000	720	570,000	710	562,000	700	550,000	690	528,000	660	500,000	630
248	6750	5.99	610,000	810	604,000	810	576,000	800	588,000	790	580,000	780	558,000	760	532,000	720
257	7000	6.45	636,000	910	628,000	900	620,000	900	614,000	880	606,000	870	586,000	850	564,000	820
276	7500	7.40	684,000	1130	678,000	1120	672,000	1110	664,000	1090	658,000	1090	642,000	1070	624,000	1040
294	8000	8.41			726,000	1360	722,000	1350	716,000	1340	710,000	1320	694,000	1310	680,000	1300
312	8500	9.50			776,000	1650	770,000	1630	764,000	1620	760,000	1600	746,000	1590	736,000	1570

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
202	5500	3.98	73,800	110												
212	5750	4.35	316,000	310												
221	6000	4.74	376,000	390	190,000	190										
230	6250	5.14	422,000	480	364,000	420										
239	6500	5.56	464,000	580	420,000	520	65,800	170								
248	6750	5.99	500,000	670	464,000	620	328,000	430								
257	7000	6.45	536,000	780	504,000	720	412,000	590	38,400	180						
276	7500	7.40	602,000	1010	576,000	980	510,000	840	404,000	670	300,000	210				
294	8000	8.41	660,000	1260	610,000	1220	590,000	1110	520,000	970	396,000	750	27,000	240		
312	8500	9.50	718,000	1550	700,000	1510	660,000	1410	602,000	1290	538,000	1140	362,000	860	32,400	310
331	9000	10.67	770,000	1850	758,000	1830	722,000	1740	680,000	1650	624,000	1500	554,000	1310	286,000	710
349	9500	11.89	824,000	2200	812,000	2180	784,000	2100	746,000	2000	702,000	1880	648,000	1720	580,000	1530
368	10000	13.17	878,000	2560	866,000	2560	812,000	2500	810,000	2400	772,000	2300	728,000	2140	674,000	1970

Double Inlet

No. 20 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
31	1075	0.152	23,800	1.0												
39	1200	0.189	105,000	4.4												
46	1400	0.258	144,000	8.2	3,740	2										
52	1600	0.337	171,000	13	126,000	9										
59	1800	0.426	198,000	19	168,000	16	30,600	5								
65	2000	0.526	224,000	26	202,000	21	165,000	15	8,540	5						
72	2200	0.636	250,000	35	232,000	31	206,000	29	160,000	23	2,940	6				
78	2400	0.759	276,000	46	260,000	44	240,000	41	210,000	36	157,000	27	2,240	8		
85	2600	0.889	300,000	58	286,000	58	272,000	54	248,000	50	216,000	43	155,000	32		
92	2800	1.03			314,000	72	300,000	70	282,000	66	258,000	60	220,000	50	156,000	40
98	3000	1.19			340,000	90	328,000	88	312,000	84	294,000	78	270,000	72	238,000	62
105	3200	1.35			364,000	110	354,000	110	342,000	105	326,000	100	308,000	94	284,000	86
111	3400	1.52			390,000	130	380,000	130	370,000	130	356,000	125	342,000	115	322,000	110
118	3600	1.71			414,000	160	406,000	150	396,000	150	386,000	150	372,000	145	354,000	135
124	3800	1.90			440,000	190	432,000	185	422,000	180	412,000	175	402,000	170	388,000	170
131	4000	2.11					456,000	210	448,000	210	440,000	210	430,000	200	420,000	200
137	4200	2.32					482,000	250	472,000	240	466,000	240	458,000	240	448,000	240
144	4400	2.55					506,000	290	500,000	280	492,000	280	484,000	280	476,000	270
150	4600	2.78					530,000	330	524,000	330	518,000	320	510,000	320	502,000	310
157	4800	3.03							550,000	370	544,000	370	538,000	360	530,000	360
163	5000	3.29							576,000	420	568,000	420	562,000	410	556,000	410
172	5250	3.63							606,000	490	600,000	480	594,000	480	588,000	470
180	5500	3.98									632,000	560	644,000	550	620,000	550
188	5750	4.35									662,000	640	658,000	640	652,000	630
196	6000	4.74									692,000	740	690,000	730	684,000	720
204	6250	5.14											720,000	820	716,000	820
212	6500	5.56											750,000	930	746,000	920
222	6750	5.99													778,000	1040

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
98	3000	1.19	140,000	38												
105	3200	1.35	252,000	76	25,200	23										
111	3400	1.52	298,000	100	222,000	76										
118	3600	1.71	336,000	130	288,000	110	61,000	38								
124	3800	1.90	371,000	160	334,000	140	274,000	115	33,000	39						
131	4000	2.11	403,000	190	372,000	175	330,000	155	252,000	120						
137	4200	2.32	436,000	230	408,000	210	374,000	200	324,000	170	95,200	64				
144	4400	2.55	466,000	270	440,000	250	412,000	240	376,000	210	316,000	170				
150	4600	2.78	492,000	310	472,000	300	448,000	280	416,000	260	380,000	240	59,600	76		
157	4800	3.03	520,000	360	502,000	340	480,000	330	452,000	310	420,000	280	312,000	210		
163	5000	3.29	548,000	410	532,000	400	512,000	380	488,000	360	460,000	340	384,000	280	52,000	92
172	5250	3.63	580,000	470	568,000	460	548,000	450	530,000	440	504,000	410	446,000	360	338,000	270
180	5500	3.98	614,000	540	602,000	540	586,000	530	568,000	510	548,000	490	490,000	440	426,000	380
188	5750	4.35	644,000	630	634,000	620	620,000	610	606,000	600	586,000	580	544,000	530	488,000	470
196	6000	4.74	680,000	710	668,000	700	650,000	700	642,000	680	624,000	670	588,000	630	540,000	570
204	6250	5.14	712,000	810	702,000	800	690,000	790	676,000	780	660,000	770	628,000	730	586,000	680
212	6500	5.56	742,000	910	730,000	900	722,000	900	710,000	890	696,000	880	668,000	820	632,000	790
222	6750	5.99	774,000	1030	764,000	1020	754,000	1010	744,000	1000	734,000	990	706,000	960	672,000	910
229	7000	6.45	804,000	1150	796,000	1140	786,000	1130	778,000	1120	768,000	1110	742,000	1080	712,000	1040
245	7500	7.40	864,000	1430	860,000	1420	850,000	1410	840,000	1380	832,000	1380	812,000	1360	790,000	1320
262	8000	8.41			920,000	1720	912,000	1710	906,000	1700	898,000	1680	880,000	1660	862,000	1640
278	8500	9.50			984,000	2100	976,000	2060	968,000	2060	962,000	2040	944,000	2020	930,000	1990

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
180	5500	3.98	93,200	135												
188	5750	4.35	400,000	390												
196	6000	4.74	476,000	500	240,000	240										
204	6250	5.14	534,000	610	460,000	530										
212	6500	5.56	588,000	730	532,000	660	83,200	210								
222	6750	5.99	632,000	850	586,000	780	414,000	550								
229	7000	6.45	678,000	990	638,000	920	522,000	750	48,600	230						
245	7500	7.40	762,000	1270	730,000	1220	644,000	1060	510,000	840	38,000	270				
262	8000	8.41	836,000	1600	810,000	1550	746,000	1410	658,000	1230	502,000	950	34,200	300		
278	8500	9.50	908,000	1960	886,000	1910	834,000	1790	762,000	1640	680,000	1440	456,000	1000	40,800	400
294	9000	10.67	974,000	2340	960,000	2320	914,000	2200	860,000	2080	790,000	1900	700,000	1660	360,000	900
310	9500	11.89	1,044,000	2800	1,030,000	2760	990,000	2660	944,000	2540	888,000	2380	820,000	2180	732,000	1940
327	10000	13.17	1,110,000	3260	1,096,000	3240	1,064,000	3160	1,024,000	3040	976,000	2920	920,000	2720	852,000	2500

Double Inlet **Double Width**

No. 22 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
31	1075	0.152	29,400	1.3												
35	1200	0.189	130,000	5.5												
41	1400	0.258	171,000	10	1,600	2										
47	1600	0.337	212,000	16	156,000	12										
53	1800	0.426	244,000	23	228,000	20	37,600	6								
59	2000	0.526	278,000	32	250,000	30	201,000	24	10,600	6						
65	2200	0.636	308,000	41	288,000	41	254,000	36	198,000	28	3,600	7				
71	2400	0.759	340,000	58	322,000	51	296,000	50	260,000	44	193,000	33	2,800	9		
77	2600	0.889	370,000	72	354,000	70	334,000	68	306,000	62	268,000	52	194,000	39		
82	2800	1.03			388,000	90	370,000	86	348,000	82	320,000	74	272,000	62	193,000	19
88	3000	1.19			420,000	120	404,000	110	386,000	105	362,000	98	332,000	88	294,000	78
94	3200	1.35			450,000	130	438,000	130	422,000	130	402,000	125	380,000	115	350,000	110
100	3400	1.52			482,000	165	470,000	160	456,000	155	440,000	155	422,000	145	398,000	135
106	3600	1.71			512,000	195	500,000	190	490,000	190	476,000	185	458,000	175	440,000	170
112	3800	1.90			542,000	230	532,000	230	522,000	220	510,000	220	496,000	210	478,000	210
118	4000	2.11					564,000	260	554,000	260	542,000	260	532,000	250	516,000	250
124	4200	2.32					596,000	310	584,000	300	576,000	300	566,000	300	552,000	290
129	4400	2.55					626,000	360	618,000	350	608,000	350	598,000	340	588,000	340
135	4600	2.78					656,000	410	648,000	400	640,000	400	630,000	390	620,000	390
141	4800	3.03							680,000	470	672,000	450	664,000	450	654,000	440
147	5000	3.29							710,000	520	704,000	510	696,000	510	686,000	500
154	5250	3.63							748,000	600	742,000	600	734,000	600	726,000	590
162	5500	3.98									780,000	690	772,000	680	764,000	680
169	5750	4.35									818,000	790	812,000	780	806,000	780
176	6000	4.74									856,000	910	852,000	900	844,000	890
184	6250	5.14											888,000	1020	884,000	1010
191	6500	5.56											926,000	1150	920,000	1140
198	6750	5.99													960,000	1280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
88	3000	1.19	173,000	47												
94	3200	1.35	312,000	94	31,200	29										
100	3400	1.52	368,000	125	274,000	94										
106	3600	1.71	416,000	160	356,000	135	77,400	47								
112	3800	1.90	460,000	195	412,000	175	338,000	145	40,800	49						
118	4000	2.11	500,000	240	460,000	220	408,000	180	310,000	150						
124	4200	2.32	538,000	280	504,000	260	462,000	240	400,000	210	118,000	80				
129	4400	2.55	576,000	330	544,000	310	508,000	290	464,000	260	392,000	210				
135	4600	2.78	608,000	380	594,000	370	552,000	350	514,000	320	470,000	290	73,600	94		
141	4800	3.03	644,000	440	620,000	430	594,000	410	560,000	380	520,000	350	384,000	260		
147	5000	3.29	678,000	500	658,000	490	634,000	470	604,000	450	570,000	430	474,000	350	64,400	115
154	5250	3.63	718,000	580	702,000	570	678,000	560	656,000	540	624,000	510	550,000	440	416,000	340
162	5500	3.98	758,000	670	742,000	660	724,000	650	702,000	630	676,000	610	614,000	550	526,000	470
169	5750	4.35	798,000	780	784,000	770	766,000	760	748,000	740	724,000	710	672,000	660	602,000	580
176	6000	4.74	840,000	880	824,000	870	812,000	870	792,000	850	772,000	830	726,000	770	666,000	710
184	6250	5.14	878,000	1000	866,000	990	850,000	980	836,000	970	818,000	950	776,000	900	724,000	840
191	6500	5.56	916,000	1130	900,000	1120	890,000	1110	878,000	1100	860,000	1080	826,000	1040	782,000	980
198	6750	5.99	954,000	1270	944,000	1260	930,000	1250	920,000	1230	906,000	1220	870,000	1180	830,000	1130
206	7000	6.45	992,000	1420	982,000	1430	970,000	1400	960,000	1380	946,000	1370	916,000	1340	880,000	1280
221	7500	7.40	1,068,000	1760	1,060,000	1750	1,050,000	1730	1,040,000	1710	1,028,000	1700	1,002,000	1670	976,000	1630
235	8000	8.41			1,136,000	2120	1,128,000	2120	1,118,000	2100	1,110,000	2080	1,086,000	2040	1,064,000	2020
250	8500	9.50			1,212,000	2580	1,202,000	2560	1,196,000	2540	1,188,000	2500	1,166,000	2480	1,150,000	2460

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
162	5500	3.98	114,000	170												
169	5750	4.35	494,000	480												
176	6000	4.74	588,000	620	29,800	300										
184	6250	5.14	660,000	760	570,000	650										
191	6500	5.56	726,000	900	656,000	810	103,000	260								
198	6750	5.99	782,000	1050	724,000	970	512,000	680								
206	7000	6.45	838,000	1220	788,000	1130	646,000	920	60,000	280						
221	7500	7.40	948,000	1570	900,000	1500	796,000	1310	630,000	1040	47,000	330				
235	8000	8.41	1,034,000	1980	1,002,000	1910	920,000	1740	814,000	1520	620,000	1170	42,200	380		
250	8500	9.50	1,122,000	2420	1,094,000	2360	1,030,000	2220	942,000	2020	840,000	1770	564,000	1350	50,400	490
265	9000	10.67	1,204,000	2900	1,186,000	2860	1,130,000	2720	1,062,000	2580	978,000	2340	866,000	2060	446,000	1110
279	9500	11.89	1,290,000	3460	1,270,000	3420	1,224,000	3300	1,168,000	3140	1,098,000	2940	1,012,000	2680	906,000	2400
294	10000	13.17	1,372,000	4020	1,356,000	4000	1,316,000	3920	1,266,000	3760	1,206,000	3600	1,140,000	3360	1,054,000	3100

Double Inlet **Double Width**

No. 24 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
28	1075	0.152	35,600	1.5												
32	1200	0.189	157,000	6.6												
37	1400	0.258	210,000	12.5	5,580	3										
43	1600	0.337	256,000	19.5	188,000	14										
48	1800	0.426	296,000	28	252,000	21	15,600	7								
52	2000	0.526	336,000	39	302,000	36	246,000	29	12,800	7						
59	2200	0.636	374,000	52	348,000	50	308,000	44	240,000	34	4,400	9				
64	2400	0.759	412,000	70	390,000	66	360,000	62	314,000	54	234,000	40	3,360	11		
70	2600	0.889	448,000	88	430,000	85	406,000	82	372,000	74	324,000	64	232,000	48		
75	2800	1.03			468,000	110	448,000	105	422,000	98	386,000	90	330,000	76	234,000	58
80	3000	1.19			508,000	130	490,000	130	468,000	125	440,000	115	404,000	110	356,000	94
86	3200	1.35			544,000	165	532,000	160	512,000	155	488,000	150	460,000	140	424,000	130
91	3400	1.52			582,000	195	568,000	190	552,000	190	532,000	190	512,000	175	480,000	165
96	3600	1.71			618,000	240	606,000	230	592,000	230	576,000	220	556,000	210	532,000	200
102	3800	1.90			656,000	280	644,000	270	630,000	270	616,000	260	600,000	260	578,000	250
107	4000	2.11					682,000	320	670,000	310	656,000	310	644,000	310	624,000	300
112	4200	2.32					720,000	370	706,000	370	696,000	360	684,000	360	668,000	350
118	4400	2.55					756,000	430	748,000	430	736,000	420	722,000	410	710,000	410
123	4600	2.78					791,000	490	784,000	480	774,000	480	762,000	470	752,000	470
128	4800	3.03							822,000	550	812,000	550	802,000	540	792,000	540
134	5000	3.29							860,000	630	850,000	620	840,000	610	830,000	610
140	5250	3.63							906,000	730	898,000	720	888,000	720	878,000	710
147	5500	3.98									944,000	840	934,000	820	936,000	820
154	5750	4.35									990,000	960	984,000	950	976,000	940
160	6000	4.74									1,036,000	1100	1,030,000	1090	1,022,000	1080
167	6250	5.14											1,076,000	1230	1,070,000	1220
174	6500	5.56											1,122,000	1390	1,116,000	1380
181	6750	5.99													1,162,000	1550

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
80	3000	1.19	210,000	56												
86	3200	1.35	378,000	110	37,800	35										
91	3400	1.52	416,000	150	332,000	110										
96	3600	1.71	504,000	190	432,000	165	91,200	56								
102	3800	1.90	558,000	240	500,000	210	410,000	170	49,400	58						
107	4000	2.11	606,000	290	558,000	260	492,000	220	376,000	175						
112	4200	2.32	652,000	340	610,000	320	558,000	290	486,000	250	142,000	98				
118	4400	2.55	696,000	400	658,000	380	614,000	350	560,000	320	474,000	260				
123	4600	2.78	736,000	460	706,000	440	668,000	420	620,000	390	568,000	350	89,000	110		
128	4800	3.03	778,000	530	750,000	520	718,000	490	676,000	460	628,000	430	466,000	320		
134	5000	3.29	820,000	610	796,000	590	776,000	570	730,000	540	688,000	520	572,000	420	77,800	140
140	5250	3.63	868,000	700	848,000	690	820,000	680	792,000	650	754,000	620	666,000	540	504,000	410
147	5500	3.98	918,000	810	898,000	800	876,000	790	848,000	760	818,000	740	742,000	660	636,000	560
154	5750	4.35	964,000	940	948,000	920	928,000	910	904,000	890	876,000	860	815,000	800	728,000	710
160	6000	4.74	1,016,000	1070	998,000	1050	980,000	1050	958,000	1020	934,000	1000	878,000	940	806,000	850
167	6250	5.14	1,062,000	1210	1,048,000	1200	1,030,000	1170	1,010,000	1170	988,000	1150	938,000	1090	876,000	1010
174	6500	5.56	1,108,000	1370	1,090,000	1350	1,078,000	1340	1,062,000	1330	1,040,000	1310	998,000	1260	946,000	1190
181	6750	5.99	1,156,000	1540	1,144,000	1530	1,128,000	1510	1,112,000	1490	1,096,000	1480	1,054,000	1430	1,006,000	1370
187	7000	6.45	1,202,000	1720	1,190,000	1710	1,176,000	1700	1,162,000	1680	1,146,000	1650	1,108,000	1620	1,066,000	1550
200	7500	7.40	1,294,000	2140	1,284,000	2120	1,270,000	2020	1,258,000	2080	1,244,000	2060	1,214,000	2020	1,180,000	1980
214	8000	8.41			1,376,000	2560	1,366,000	2560	1,354,000	2540	1,342,000	2500	1,314,000	2480	1,290,000	2460
227	8500	9.50			1,470,000	3120	1,458,000	3080	1,448,000	3060	1,438,000	3040	1,412,000	3000	1,390,000	2980

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
147	5500	3.98	140,000	200												
154	5750	4.35	596,000	580												
160	6000	4.74	712,000	750	360,000	360										
167	6250	5.14	798,000	910	688,000	790										
174	6500	5.56	878,000	1090	794,000	980	125,000	320								
181	6750	5.99	946,000	1270	876,000	1170	618,000	820								
187	7000	6.45	1,014,000	1480	952,000	1370	780,000	1120	72,600	340						
200	7500	7.40	1,138,000	1900	1,090,000	1820	962,000	1590	762,000	1260	57,000	400				
214	8000	8.41	1,250,000	2400	1,212,000	2320	1,114,000	2100	984,000	1840	750,000	1410	51,200	450		
227	8500	9.50	1,358,000	2920	1,326,000	2860	1,218,000	2680	1,140,000	2440	1,018,000	2140	680,000	1640	61,000	600
241	9000	10.67	1,458,000	3500	1,436,000	3460	1,366,000	3300	1,286,000	3120	1,182,000	2840	848,000	2480	540,000	1340
254	9500	11.89	1,562,000	4180	1,538,000	4140	1,482,000	3980	1,412,000	3800	1,328,000	3560	1,226,000	3240	1,096,000	2900
268	10000	13.17	1,662,000	4860	1,640,000	4840	1,594,000	4740	1,532,000	4560	1,460,000	4360	1,378,000	4060	1,276,000	3740

Double Inlet **Double Width**

No. 26 Multivane Fan—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
24	1075	0.152	42,400	2												
28	1200	0.189	187,000	8												
32	1400	0.258	250,000	15	6,660	3										
37	1600	0.337	304,000	23	221,000	17										
42	1800	0.426	352,000	34	300,000	29	54,400	8								
46	2000	0.526	400,000	47	360,000	43	294,000	34	15,200	9						
51	2200	0.636	414,000	62	414,000	60	366,000	52	286,000	44	5,240	10				
55	2400	0.759	490,000	82	462,000	80	428,000	74	374,000	64	280,000	47	1,000	14		
60	2600	0.889	532,000	105	512,000	100	482,000	98	442,000	88	384,000	76	276,000	56		
65	2800	1.03			558,000	130	534,000	125	502,000	115	460,000	110	392,000	90	278,000	70
69	3000	1.19			606,000	160	584,000	155	556,000	150	522,000	140	480,000	130	424,000	110
74	3200	1.35			648,000	190	630,000	190	608,000	190	580,000	175	546,000	165	501,000	155
78	3400	1.52			694,000	230	676,000	230	656,000	220	634,000	220	608,000	210	572,000	195
83	3600	1.71			736,000	280	720,000	270	706,000	270	686,000	270	660,000	250	634,000	240
88	3800	1.90			782,000	330	768,000	330	752,000	320	734,000	310	714,000	310	688,000	300
92	4000	2.11					812,000	380	798,000	370	782,000	370	766,000	360	744,000	360
97	4200	2.32					858,000	440	842,000	440	830,000	430	814,000	430	796,000	420
102	4400	2.55					900,000	520	890,000	510	876,000	500	860,000	490	846,000	480
106	4600	2.78					944,000	590	934,000	580	922,000	570	908,000	560	896,000	560
111	4800	3.03							980,000	660	968,000	650	956,000	650	944,000	640
115	5000	3.29							1,024,000	750	1,012,000	740	1,000,000	730	990,000	720
121	5250	3.63							1,078,000	870	1,070,000	860	1,058,000	860	1,046,000	840
127	5500	3.98									1,124,000	1000	1,114,000	980	1,104,000	980
133	5750	4.35									1,180,000	1140	1,172,000	1130	1,162,000	1120
138	6000	4.74									1,232,000	1310	1,228,000	1300	1,216,000	1280
144	6250	5.14											1,280,000	1470	1,274,000	1450
150	6500	5.56											1,336,000	1660	1,330,000	1640
156	6750	5.99													1,382,000	1850

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
69	3000	1.19	250,000	68												
74	3200	1.35	450,000	136	44,800	41										
78	3400	1.52	530,000	180	396,000	135										
83	3600	1.71	600,000	230	514,000	195	109,000	66								
88	3800	1.90	664,000	280	594,000	250	488,000	210	58,800	70						
92	4000	2.11	720,000	340	664,000	310	586,000	280	446,000	210						
97	4200	2.32	776,000	410	728,000	380	666,000	340	578,000	300	170,000	115				
102	4400	2.55	830,000	480	784,000	450	732,000	420	668,000	380	564,000	310				
106	4600	2.78	876,000	550	842,000	530	796,000	500	740,000	460	676,000	420	106,000	130		
111	4800	3.03	928,000	630	894,000	610	856,000	590	806,000	550	748,000	510	554,000	380		
115	5000	3.29	978,000	720	948,000	700	912,000	680	868,000	650	820,000	610	682,000	500	92,600	64
121	5250	3.63	1,031,000	840	1,010,000	820	976,000	800	944,000	770	898,000	740	792,000	640	600,000	490
127	5500	3.98	1,094,000	970	1,070,000	960	1,042,000	940	1,010,000	910	974,000	880	884,000	790	758,000	670
133	5750	4.35	1,148,000	1120	1,130,000	1100	1,104,000	1090	1,076,000	1060	1,042,000	1030	968,000	950	868,000	830
138	6000	4.74	1,210,000	1270	1,190,000	1260	1,168,000	1250	1,140,000	1220	1,112,000	1190	1,044,000	1120	960,000	1038
144	6250	5.14	1,264,000	1440	1,248,000	1420	1,228,000	1410	1,202,000	1390	1,176,000	1370	1,118,000	1300	1,042,000	1210
150	6500	5.56	1,320,000	1630	1,300,000	1610	1,284,000	1600	1,264,000	1580	1,238,000	1560	1,188,000	1500	1,126,000	1410
156	6750	5.99	1,376,000	1830	1,362,000	1820	1,342,000	1800	1,324,000	1780	1,304,000	1760	1,254,000	1700	1,198,000	1620
161	7000	6.45	1,432,000	2040	1,416,000	2040	1,398,000	2020	1,381,000	1990	1,362,000	1970	1,320,000	1920	1,268,000	1850
173	7500	7.40	1,540,000	2540	1,528,000	2520	1,512,000	2500	1,498,000	2460	1,480,000	2440	1,444,000	2400	1,404,000	2360
181	8000	8.41			1,634,000	3060	1,624,000	3040	1,612,000	3020	1,598,000	2980	1,566,000	2940	1,534,000	2920
196	8500	9.50			1,750,000	3720	1,734,000	3680	1,722,000	3640	1,710,000	3620	1,680,000	3580	1,654,000	3540

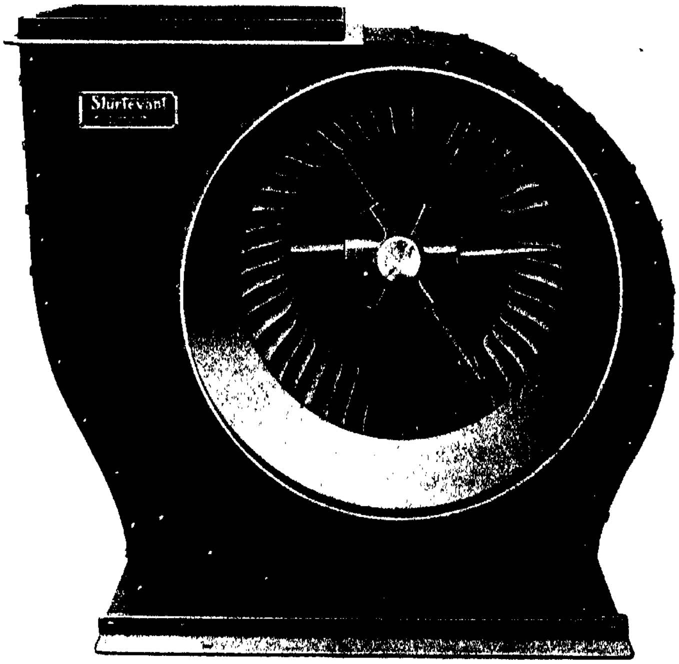
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
127	5500	3.98	167,000	240												
133	5750	4.35	710,000	690												
138	6000	4.74	848,000	890	428,000	430										
144	6250	5.14	950,000	1090	820,000	940										
150	6500	5.56	1,044,000	1300	946,000	1170	148,000	380								
156	6750	5.99	1,126,000	1510	1,042,000	1390	736,000	980								
161	7000	6.45	1,206,000	1760	1,132,000	1630	930,000	1330	86,400	400						
173	7500	7.40	1,354,000	2240	1,298,000	2160	1,146,000	1890	908,000	1500	67,800	480				
181	8000	8.41	1,488,000	2840	1,442,000	2760	1,326,000	2500	1,172,000	2180	892,000	1690	60,800	540		
196	8500	9.50	1,616,000	3480	1,576,000	3400	1,481,000	3180	1,358,000	2920	1,212,000	2560	812,000	1950	72,600	710
208	9000	10.67	1,734,000	4160	1,708,000	4120	1,626,000	3920	1,530,000	3720	1,408,000	3380	1,246,000	2960	642,000	1760
219	9500	11.89	1,858,000	4960	1,828,000	4920	1,762,000	4740	1,692,000	4520	1,580,000	4240	1,458,000	3860	1,304,000	3400
230	10000	13.17	1,976,000	5780	1,950,000	5760	1,894,000	5640	1,822,000	5420	1,736,000	5200	1,640,000	4840	1,518,000	4440

SUPERVANE FANS

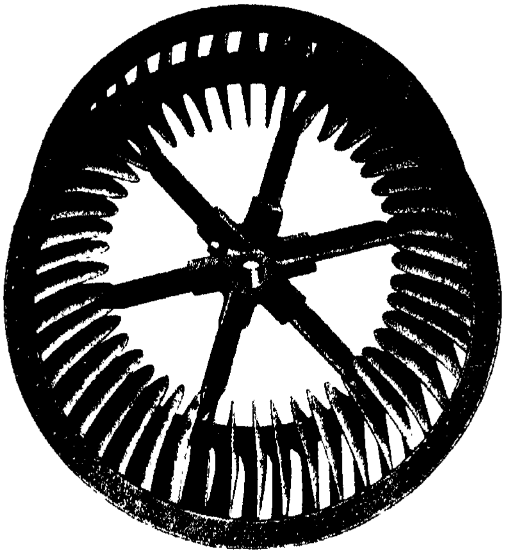
Design 1

Dimensions, Capacities, Horse Powers

Supervane Fan



Sturtevant Supervane Fan — Design 1



Supervane Wheel

SUPERVANE FAN—DESIGN 1

SPECIFICATIONS

General. There shall be furnished a No....., Sturtevant Supervane Fan. It shall be made (single or double) .... inlet, (single or double) .... width, (right or left) ... ...hand, ...discharge and have (full or 7/8)......housing. The wheel shall be not less than ....." diameter, ..." wide. The outlet shall be ....." by .....", the diameter of the inlet shall be.....". The total height of the fan housing shall be.....", the width in direction of shaft ....", and the length transverse of shaft ....".

The fan shall have a capacity of .... cubic feet per minute against a resistance of .. .." water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately ...... R.P.M., requiring approximately ..... B.H.P.

Housing. The housing shall be of spiral form constructed of steel plate and angle irons strongly braced and bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge for fans above 45" high. The few smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

Wheel. The blades of the wheel shall be made of refined steel plate. Both the outer or discharge edge and the inner or intake edge of the blade shall have a maximum diameter at the side plates of the wheel. The diameter of each of these edges shall diminish as the center of the wheel is approached, at which point it is a minimum. The outer edge of the blade shall not be in a plane through the axis but shall recede gradually from either side plate in to the center of the wheel while the inner edge at all points shall lie in a plane through the axis of the fan. The inner edge of the blade at the center shall be relatively of very small diameter extending in almost to the hub of the wheel. The blade shall be dished and curved forward in such a manner as to most efficiently handle the air from the time it enters till it leaves the blade. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template as well as the blades themselves, to insure the proper position of each blade in the wheel. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

Bearings. The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbit, containing upwards of 85% tin, bored and scraped to exact size.

Shaft. The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

SUPERVANE FAN—DESIGN 1

EXPLANATION OF SPECIFICATION REQUIREMENTS

Noise. Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

Provision for Minimizing Losses. The greater diameter of the blade at each side plate does away with the loss due to air pockets, hence eddy currents, ordinarily existing in this portion of the blade. The projection of the intake edge of the blade deep into the intake chamber picks up the air with less shock and delivers it to the outer or major portion of the blade where for the most part the work on the air is done.

Distribution of Stresses. The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

Strength and Rigidity. Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bulging or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

Wearing Qualities. Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

Supervane Fan—Design 1

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Single Inlet **Single Width**

Approximate Weights Supervane Fans—Design 1

Full Housing **B. H. D.**

Size	Overhung Wheel	Overhung Pulley
A	207	207
B	310	310
C	437	437
D	632	632
E	826	826
F	1044	1044
G	1448	1448
H	1838	1838
J	2347	2347
K	3097	3097
L	3538	3538
M	4760	4760
N	5403	5403
P	6820	6820
Q	8155	8155
R	9482	9482

Single Inlet **Single Width**

Weights Supervane Fans—Design 1

7/8 Housing **T. H. D.**

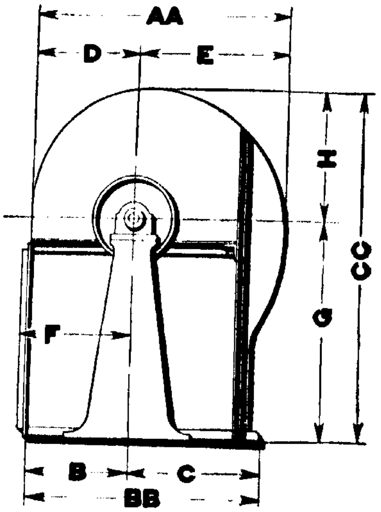
Size	Overhung Wheel	Overhung Pulley
J	1910	1910
K	2430	2430
L	3108	3108
M	4157	4157
N	4777	4777
P	6051	6051
Q	7183	7183
R	8476	8476
S		11120
T		12840
U		16071
V		20153
W		23638
X		26723
Y		29652

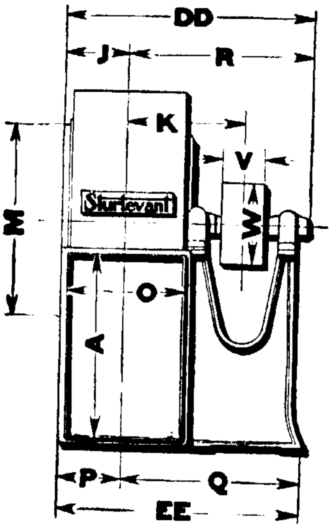
Single Inlet

Supervane Fan—Design 1

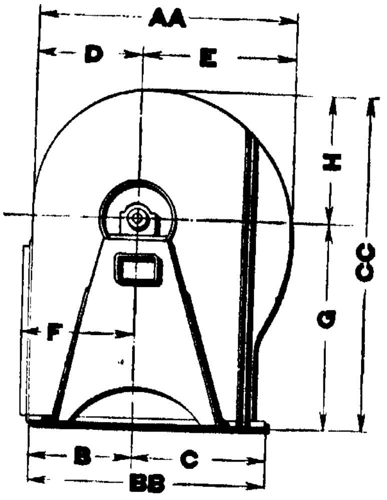
Single Width

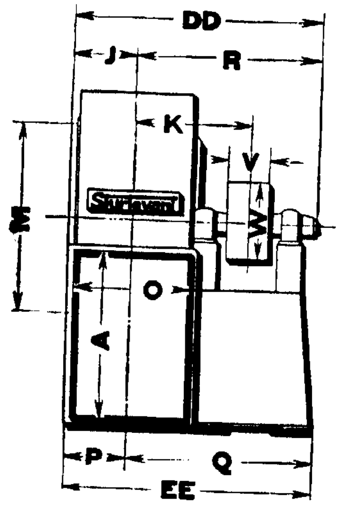
Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Dia.	Anchor Bolts Fan	Anchor Bolts Hanger
A	13½	8½	11½	8½	12¼	9¾	18½	10¼	5⅝	12⅝	15⅜	9⅜	6⅝	21⅛	21⅞	4	7	20¾	19¼	28¾	27½	27¾	11¼	1¼	½	½
B	16½	10½	13½	10⅜	15⅛	12	22	12⅝	7	14¼	19	11¾	7¼	23¾	21½	4	8	25⅝	23¼	31⅝	31½	31½	17⅝	1⅜	½	½
C	19½	12⅝	15⅞	12⅝	17⅞	13⅞	25	15	8¼	16¼	22½	13⅞	9¼	25¾	26½	5	9	30¼	28¼	40	31¾	35	20⅞	1½	½	⅝
D	22½	11⅝	18	11⅝	20⅝	16⅜	30	17¼	9¼	19	26	15⅞	10¼	31¾	31⅞	5	10	35	32⅛	47¼	41⅛	42	21⅛	1 11/16	⅝	⅝
E	25½	16¼	20⅛	16¼	23½	18⅛	32¾	19⅝	10⅝	20⅛	29½	18	11⅜	33⅞	33⅝	6	11	39¾	36⅜	52⅛	44	45¼	27⅞	1 15/16	⅝	⅝
F	28½	18¼	22⅜	18¼	26¼	20¼	35¾	22	11⅞	22⅛	33	20	12⅛	36⅞	36⅝	7	12	44½	40⅝	57¾	48⅛	49¼	30⅝	1 15/16	⅝	⅝
G	32⅝	20¼	21⅞	20¼	30	22¾	41¾	25⅛	13⅛	25¾	37⅝	22⅞	13¾	41¼	41¼	8	14	50¾	45⅜	66⅞	51½	55	35	2 3/16	¾	¾
H	36⅛	23⅛	28	23⅛	33¾	25⅜	48½	28¼	14⅝	28⅝	42¼	25¾	16⅛	46⅜	46½	9	16	57⅛	51⅛	76¾	61⅛	62¾	39¼	2 7/16	¾	⅞
J	40⅝	25⅞	30⅛	25⅞	37⅛	27⅞	55	31⅛	16	31	46⅞	28½	17½	50½	50⅜	10	18	63⅜	56¼	86⅜	66⅜	68	43½	2 11/16	⅞	1
K	46⅝	29¾	31⅛	29⅜	43⅛	32⅛	61⅛	36	18⅛	34⅝	54	32⅝	19⅝	56⅛	56	11	20	72⅞	64⅛	97⅛	74⅛	75¾	50⅛	2 15/16	⅞	1





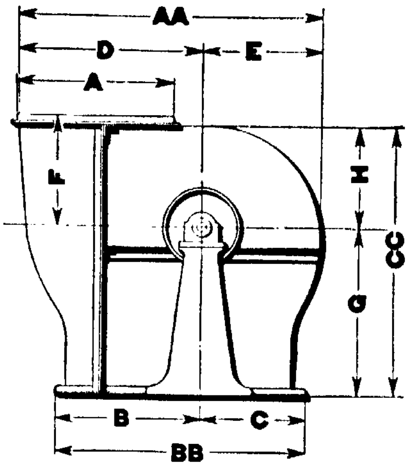
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Ex Wheel Dia.	Shaft Dia.	Anchor Bolts Fan	Anchor Bolts Hanger
L	52¾	33⅞	38⅞	33⅜	48⅝	36⅛	65¼	40⅝	20⅛	33¼	61	36¼	22⅝	50	51¼	12	22	82¼	72½	106⅜	71⅜	72⅝	56⅝	2 15/16	⅞	1
M	58⅝	37½	42⅞	37½	51⅛	40	73¼	45⅝	22¼	36⅞	68	40⅞	24¾	55½	56½	12	24	91¾	80⅜	118⅜	78¾	80¼	63⅛	3 7/16	⅞	1
N	61⅞	41⅝	46¼	41⅜	59⅞	43⅞	81¼	50	24⅞	39⅛	75	45⅛	27⅜	58¼	59⅝	13	28	101¼	88⅛	131¼	84¼	85¾	69⅝	3 7/16	⅞	1
P	70¾	45¼	50¼	45¼	65⅛	48¾	88¼	54⅝	26⅞	42⅞	82	49⅞	29⅜	63⅞	65⅛	13	32	110¾	95½	142⅞	92	93¼	76	3 15/16	⅞	1
Q	76¾	49¼	55¼	49⅛	71⅛	52⅜	95½	59⅝	29	46½	89	53½	32⅛	69¼	71¼	14	36	120¼	104¼	154⅞	100¼	102	82⅝	4½	⅞	1¼
R	81¾	54¼	60¼	54⅛	78⅜	57⅜	105¼	65⅝	32¼	49¼	98⅜	59	35¼	72¾	74	14	42	132⅞	114½	170⅞	106⅜	107½	91⅛	4½	1	1¼

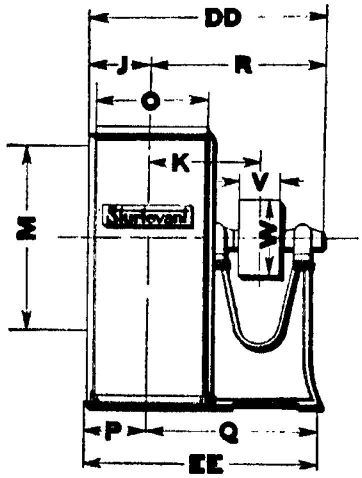
Single Inlet

Supervane Fan—Design 1

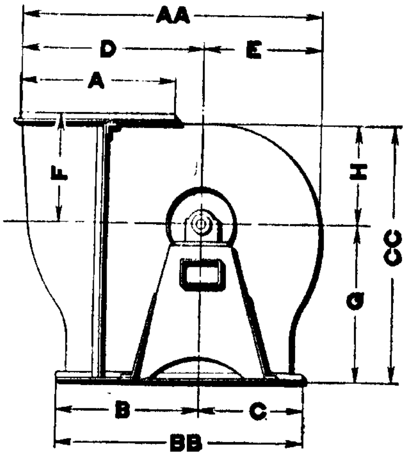
Single Width

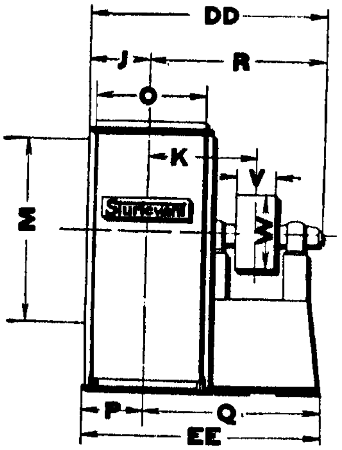
Full Housing **Up Blast Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Hanger
A	13½	13¾	9¼	15¼	10¾	9¼	18¾	8¼	5⅝	12⅝	15⅞	9⅝	6⅛	21⅛	21⅞	4	7	26	23	27	27½	27¼	11¼	1¼	½	½
B	16½	15¾	11½	19⅝	12⅜	12	22	10½	7	11¼	19	11¼	7¾	23¾	24½	4	8	32	27¼	32½	31½	31½	17⅝	1⅜	½	½
C	19½	18¾	13¾	23	15	13⅞	25⅛	12¾	8¼	16¼	22½	13⅞	9¼	25¼	26½	5	9	38	32½	37⅞	34¾	35	20⅞	1½	½	⅝
D	22¼	21½	15½	26⅛	17¾	16¼	30	14⅛	9¼	19	26	15⅞	10¼	31¾	31⅞	5	10	43⅞	37	44⅛	41⅛	42	21⅛	1 11/16	⅝	⅝
E	25½	24¼	17	30¼	19⅝	18¼	32¾	16¼	10⅜	20⅛	29½	18	11⅜	33⅞	33⅝	6	11	49⅞	41¼	49	44	45¼	27⅜	1 13/16	⅝	⅝
F	28¾	26½	19	33⅞	22	20¼	35¾	18¼	11⅞	22⅛	33	20	12⅜	36⅞	36⅝	7	12	55⅞	45½	54	48½	49¼	30⅝	1 15/16	¾	¾
G	32⅝	30	21¼	38⅛	25⅝	22⅜	41¾	20¾	13¼	25¾	37½	22¾	13¾	41¼	41¼	8	14	63¾	51¼	62½	54½	55	35	2 3/16	¾	¾
H	36⅝	37½	21½	43⅜	28¼	25⅛	48¼	23⅝	14⅜	28⅝	42¼	25¼	16¼	46⅜	46¾	9	16	71⅝	59	71⅞	61⅛	62⅝	39¼	2 7/16	¾	⅞
J	40⅞	38½	27	48¼	31⅜	27⅞	55	25⅞	16	31	46⅞	28½	17½	50½	50⅜	10	18	79⅝	65½	80⅞	66⅜	68	43½	2 11/16	⅞	1
K	46⅝	43½	30½	55⅛	36	32	61½	29¾	18⅜	34⅛	51	32⅝	19¼	56¼	56	11	20	91⅛	74	91¼	74⅛	75½	50⅛	2 15/16	⅞	1





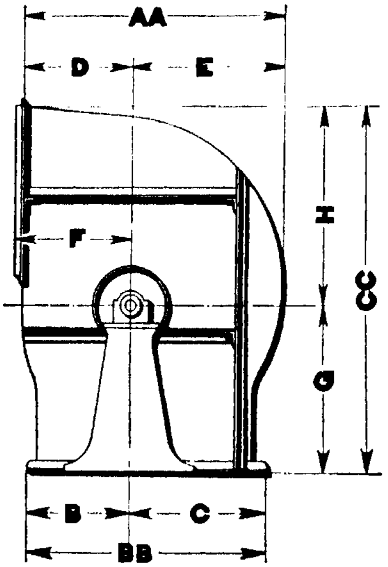
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Hanger
L	52⅝	49½	35	62⅝	40⅝	36⅛	51¾	33⅝	20⅛	33¼	61	36¾	22⅜	50	51¼	12	22	103¼	84½	85⅜	71⅜	72⅜	56⅝	2 15/16	⅞	1
M	58⅝	54½	38½	69⅞	45⅜	40	57¾	37½	22¼	36⅞	68	40¾	24¾	55½	56½	12	24	115¼	93	95¼	78¾	80¼	63⅛	3 7/16	⅞	1
N	64⅝	60	46¾	77⅛	50	43⅞	64	41⅜	21⅞	39⅛	75	45⅛	27⅜	58⅜	59⅛	13	28	127⅛	106¾	105⅜	81	85¾	69⅝	3 7/16	⅞	1
P	70¾	65	50¼	84¼	54⅝	48¼	69½	45¼	26⅞	42⅞	82	49⅜	29⅜	63⅞	65⅛	13	32	138⅞	115¼	114¾	92	93¼	76	3 15/16	⅞	1
Q	76¾	72	55⅛	91½	59⅜	52⅝	75¼	49⅛	29	46½	89	53½	32½	69½	71¼	14	36	150⅞	127⅛	124⅜	100¼	102	82⅝	4½	⅞	1¼
R	84¾	78	60¼	101⅛	65⅝	57¼	82¾	54¼	32¼	49¼	98⅜	59	35¼	72¼	74	14	42	166¾	138¼	137	106¼	107½	91¼	4½	1	1¼

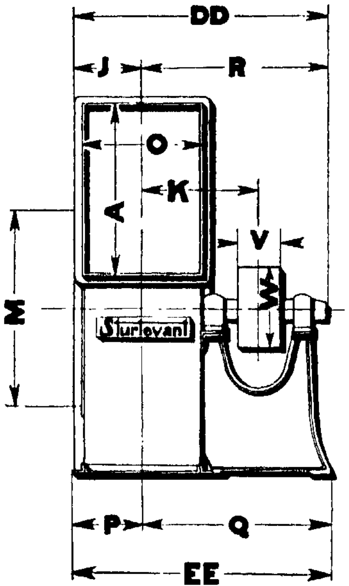
Single Inlet **Single Width**

Full Housing **Overhung Wheel**

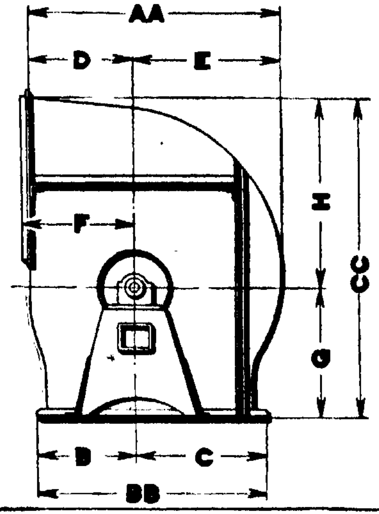
Supervane Fan—Design 1

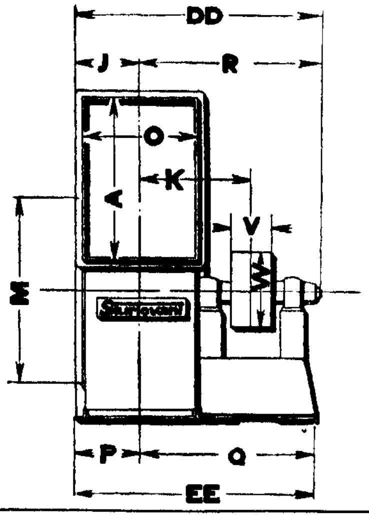
Top Horizontal Discharge





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Dia.	Anchor Bolts	
																									Fan	Hanger
A	13½	8½	11¼	8½	12¼	9¾	14	15¾	5⅝	12⅜	15⅜	9⅝	6⅝	21⅛	21⅞	4	7	20¾	19¼	29¼	27½	27¼	14¼	1¼	½	½
B	16½	10	13¼	10½	15⅛	12	16½	19⅜	7	11¼	19	11¾	7¾	23¼	24½	4	8	25⅝	23¼	35⅞	31½	31½	17⅝	1⅜	½	½
C	19½	12	15⅞	12⅞	17⅞	13⅞	18½	23	8¼	16¼	22½	13⅞	9¼	25¾	26½	5	9	30¼	27⅞	41½	34¾	35	20⅞	1½	½	⅝
D	22½	13½	18	11⅞	20⅝	16⅝	20¾	26⅝	9¼	19	26	15⅞	10¼	31¾	31⅞	5	10	35	31½	47¾	41⅛	42	21⅛	1 11/16	⅝	⅝
E	25½	15	20⅛	16¼	23½	18¼	23½	30¼	10⅛	20⅛	29½	18	11¾	33⅞	33⅜	6	11	39¾	35⅛	53¼	44	45¼	27⅜	1 15/16	⅝	⅝
F	28½	16½	22⅜	18¼	26¼	20¼	25⅛	33⅞	11⅞	22⅛	33	20	12⅜	36⅞	36⅝	7	12	41½	38⅞	59⅛	48½	49¼	30⅝	1 15/16	¾	¾
G	32⅞	18	24⅝	20¾	30	22¾	30¾	38⅝	13¾	25¾	37⅜	22⅞	13¾	41¼	41¼	8	14	50¼	42⅝	69⅛	54½	55	35	2 3/16	¾	¾
H	36⅞	21	28	23⅞	33¾	25⅜	35½	43⅜	14⅜	28⅝	42¼	25¾	16⅛	46⅝	46½	9	16	57⅛	49	78⅞	61⅛	62¾	39¼	2 7/16	¾	⅞
J	40⅝	23	30⅛	25⅞	37½	27⅞	40⅝	48¼	16	31	46⅞	28½	17½	50½	50⅞	10	18	63⅞	53⅜	89	66⅛	68	43½	2 11/16	⅞	1
K	46⅝	25½	31⅞	29¼	43⅛	32¼	45½	55½	18⅛	34⅝	54	32⅝	19⅝	56⅛	56	11	20	72⅞	59⅞	101	74⅛	75¾	50⅛	2 15/16	⅞	1



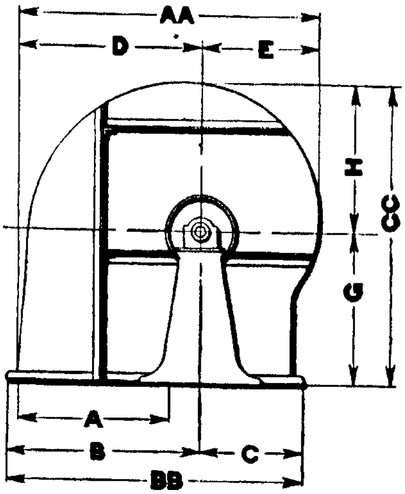


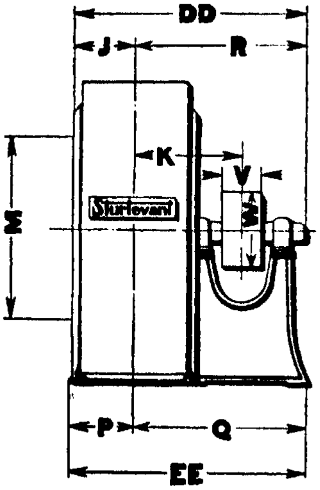
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Diameter	Anchor Bolts	
																									Fan	Hanger
L	52⅞	29½	38⅞	33⅞	18⅞	36⅝	43¼	62⅝	20⅛	33¼	61	36¼	22⅞	50	51¼	12	22	82¼	68⅛	106⅛	71⅜	72⅝	56⅞	2 15/16	⅞	1
M	58⅝	32½	42⅞	37½	54¼	40	48¼	69⅞	22⅛	36⅝	68	40⅞	21¾	55½	56¼	12	21	91¾	75⅛	118⅞	78¾	80¼	63¼	3 7/16	⅞	1
N	64⅝	46⅝	46¾	11⅞	59⅞	13⅞	54	77⅞	24⅝	39⅝	75	15⅝	27⅜	58⅜	59⅜	13	28	101¼	93⅛	131⅛	84¼	85¾	69⅞	3 7/16	⅞	1
P	70⅞	50¼	50¼	45¼	65½	18¾	58⅝	84¼	26⅞	42⅞	82	49⅛	29⅝	63⅞	65¼	13	32	110¼	100½	113	92	93¼	76	3 15/16	⅞	1
Q	76⅝	55⅜	55½	19⅛	71⅛	52⅝	63½	91½	29	16½	89	53½	32½	69½	71¼	14	36	120¼	110¼	155	100¼	102	82⅜	4½	⅞	1¼
R	84⅞	60¼	60¾	54¼	78⅝	57¼	69¼	101¼	32⅞	19¼	98⅜	59	35¼	72¼	74	14	42	132⅞	120⅛	170⅞	106⅞	107⅞	91½	4½	1	1¼

Single Inlet | **Single Width**

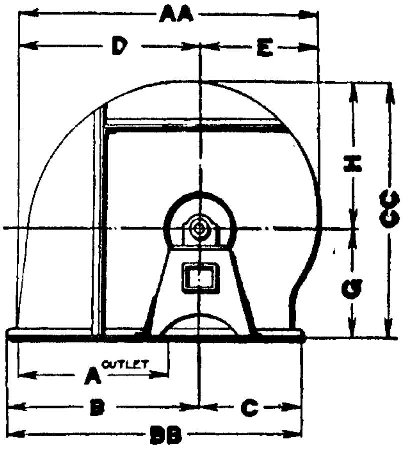
Supervane Fan—Design 1

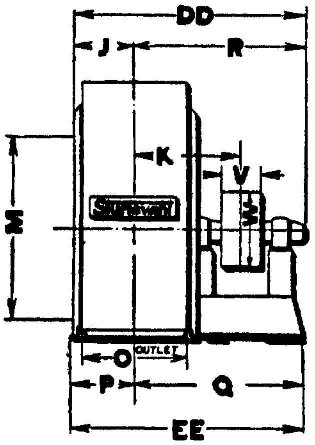
Full Housing | **Down Blast Discharge** | **Overhung Wheel**





Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Fan	Hanger
A	13	18⅛	9¾	15¾	10¼	14	12¼	5⅝	12⅜	15⅝	9	6¾	21⅛	21⅞	4	7	26	27⅞	26⅛	27⅛	27⅜	14⅛	1¼	½	½
B	16	21¾	11½	19⅛	12⅝	16½	15⅛	7	14⅛	19	11⅛	7¼	23⅛	24½	4	8	32	33⅜	31⅝	31½	31⅝	17⅜	1⅜	½	½
C	19	25⅞	13¼	23	15	18½	17⅞	8¼	16¼	22½	13¼	9¼	25⅞	26½	5	9	38	39⅝	36⅜	34⅜	35	20⅞	1½	½	½
D	22	29½	15½	26⅝	17¼	20¾	20⅝	9¼	19	26	15¼	10¼	31⅞	31⅞	5	10	43⅞	45	41⅝	41⅝	42	24⅜	1$\frac{11}{16}$	½	⅝
E	25	33¼	17¼	30¼	19⅝	23½	23¾	10⅝	20⅛	29⅛	17⅜	11⅜	33⅞	33⅝	6	11	49⅞	50⅛	47	44	45½	27⅜	1$\frac{13}{16}$	⅝	⅝
F	28	36⅞	19	33⅞	22	25½	26¼	11⅞	22⅛	33	19⅜	12⅜	36⅞	36⅜	7	12	55⅞	55⅞	51¾	48½	49¼	30⅝	1$\frac{15}{16}$	⅝	¾
G	32	41⅞	21¼	38⅝	25⅛	30¾	30	13¼	25¾	37⅝	22⅛	13¼	41¼	41¼	8	14	63⅞	63⅛	60¾	54½	55	35	2$\frac{3}{16}$	¾	¾
H	36	47¾	24½	43⅛	28¼	35½	33¾	14⅝	28⅝	42⅜	25	16⅛	46⅜	46⅜	9	16	71⅞	72¼	69¼	61⅛	62⅜	39⅛	2$\frac{7}{16}$	¾	⅞
J	40	52⅞	27	48¼	31⅞	40¾	37⅜	16	31	46⅞	27¾	17⅛	50½	50⅝	10	18	79⅜	79⅛	78⅛	66⅜	68	43½	2$\frac{11}{16}$	⅞	1
K	46	60¾	30¼	55¼	36	45¼	43⅜	18⅛	34⅝	54	31⅞	19⅜	56⅛	56	11	20	91¼	90¾	88⅝	74⅛	75¾	50⅛	2$\frac{15}{16}$	⅞	1





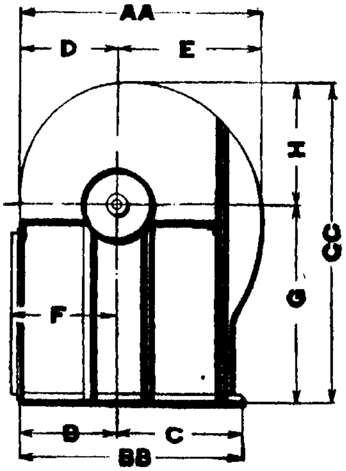
Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Fan	Hanger
L	52	67⅛	35	62⅝	40⅝	36¼	48⅜	20⅛	33⅛	61	36	22⅝	50	51¼	12	22	103¼	102⅛	85⅜	71⅜	72⅝	56⅝	2$\frac{15}{16}$	⅞	1
M	58	74⅜	38½	69⅞	45⅜	41	54¼	22¼	36⅞	68	40⅛	24¾	55½	56½	12	24	115¼	112⅞	95¼	78¾	80¼	63⅛	3$\frac{7}{16}$	⅞	1
N	64	82⅜	46¾	77⅛	50	45½	59⅞	24⅞	39⅝	75	44⅜	27⅜	58⅜	59⅞	13	28	127⅛	128⅞	105⅞	84½	85¾	69⅝	3$\frac{7}{16}$	⅞	1
P	70	89¾	50¼	84¾	54⅜	49¼	65½	26⅞	42⅞	82	48½	29⅜	63⅞	65¼	13	32	138⅞	139⅜	114¾	92	93¼	76	3$\frac{15}{16}$	⅞	1
Q	76	97½	55¼	91½	59⅜	53¼	71⅛	29	46½	89	52⅝	32½	69½	71¼	14	36	150⅞	152⅝	124⅜	100⅜	102	82⅜	4½	⅞	1¼
R	84	107⅛	60¼	101⅛	65⅜	58¼	78⅝	32¾	49¼	98⅜	58⅛	35¼	72¼	74	14	42	166¾	167⅜	136⅞	106¾	107½	91½	4½	1	1¼

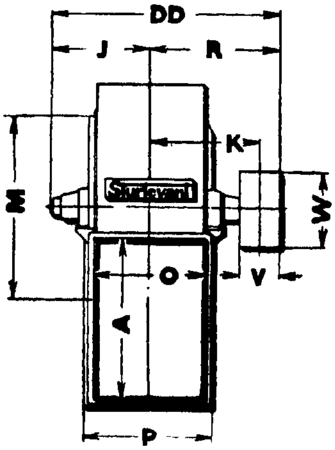
Single Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**





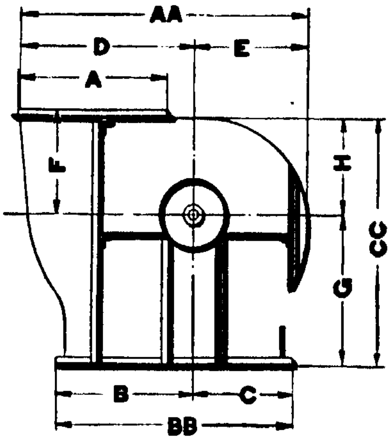
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28⅛	18¼	22⅜	18¼	26¼	20½	36¼	22	18½	19¼	33	20	24⅝	22½	7	12	44½	40⅝	58¼	41	30⅝	1 15/16	¾
G	32¾	20¾	24⅞	20¾	30	22¾	41	25⅛	20⅝	21⅞	37⅝	22⅞	27⅜	25¾	8	14	50¾	45⅝	66⅛	46⅜	35	2 3/16	¾
H	36⅝	23⅜	28	23⅜	33¾	25⅛	46	28½	22¾	24¼	42¼	25¾	32¼	28¾	9	16	57⅛	51⅜	74½	51½	39¼	2 7/16	¾
J	40⅞	25⅞	30⅝	25⅞	37½	27⅞	50¾	31⅜	25	26⅝	46⅞	28½	35	31¾	10	18	63⅜	56½	82⅛	56¾	43½	2 11/16	⅞
K	46⅝	29½	34⅞	29⅝	43¼	32¼	58¼	36	28	29⅝	54	32⅝	39⅛	35⅛	11	20	72⅞	64⅜	94¼	63⅛	50⅛	2 15/16	⅞
L	52⅞	33⅜	38⅞	33⅝	48⅝	36⅛	65¾	40⅞	30	31⅞	61	36¼	45¼	37⅞	12	22	82¼	72¼	106⅝	67⅞	56⅝	2 15/16	⅞
M	58⅝	37½	42⅞	37⅛	54¼	40	73½	45⅛	33⅜	35⅜	68	40⅞	49⅝	41⅜	12	24	91⅜	80⅜	118⅝	74¾	63⅛	3 7/16	⅞
N	64⅝	41⅜	46¾	41⅜	59⅞	43⅞	81¼	50	35⅝	37⅞	75	45⅛	54⅝	44⅜	13	28	101¼	88⅛	131¼	80	69⅝	3 7/16	⅞
P	70¾	45¼	50¼	45¼	65½	48¾	88¼	54½	39⅝	41⅜	82	49⅜	58⅝	47⅞	13	32	110¾	95½	142¾	87½	76	3 15/16	⅞
Q	76¼	49⅜	55⅛	49¼	71	52⅜	95½	59⅜	43	45	89	53½	64⅞	52	14	36	120¼	104½	154⅞	95	82⅝	4 7/16	⅞
R	81¾	54¼	60¼	54¼	78⅝	57¼	105¼	65⅝	45¾	47¾	98⅝	59	70⅝	54⅝	14	42	132⅞	114½	170⅞	100⅜	91½	4 7/16	1

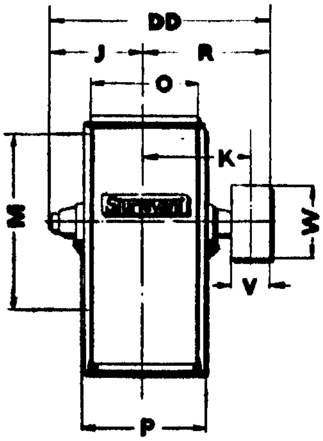
Single Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





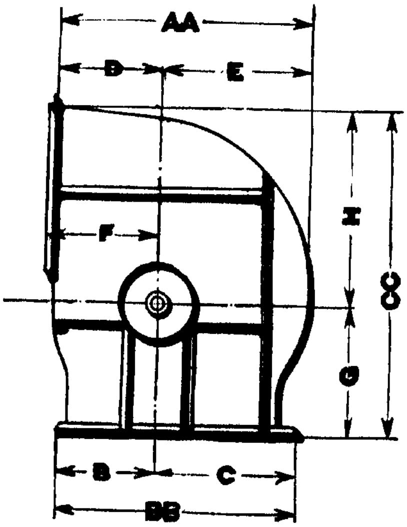
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	26½	19	33⅞	22	20¼	28½	18¼	18¼	19¼	33	20	24⅝	22¾	7	12	55⅞	45½	46¾	41⅝	30⅝	1$\frac{15}{16}$	¾
G	32⅝	30	21¼	38⅝	25⅛	22¾	32½	20¾	20⅝	21¾	37⅝	22⅞	27⅝	25¾	8	14	63¾	51¼	53¼	46⅝	35	2$\frac{3}{16}$	¾
H	36⅝	34½	24½	43⅞	28¼	25⅜	36¼	23⅜	22¾	24¼	42¼	25¾	32¼	28¾	9	16	71⅝	59	59⅞	51½	39¼	2$\frac{7}{16}$	¾
J	40⅝	38½	27	48¼	31⅜	27⅞	40	25⅞	25	26¾	46⅞	28½	35	31¾	10	18	79⅝	65½	65⅞	56¾	43½	2$\frac{11}{16}$	⅞
K	46⅝	43½	30½	55½	36	32¼	45¾	29¾	28	29⅝	54	32⅝	39⅛	35⅛	11	20	91½	74	75½	63⅛	50⅛	2$\frac{15}{16}$	⅞
L	52⅝	49½	35	62⅝	40⅝	36⅛	51¾	33⅝	30	31⅞	61	36¾	45¼	37⅞	12	22	103¼	84½	85⅛	67⅞	56⅝	2$\frac{15}{16}$	⅞
M	58⅝	54½	38½	69⅞	45⅜	40	57¾	37½	33⅜	35⅜	68	40⅞	49⅜	41⅜	12	24	115¼	93	95¼	74¾	63⅛	3$\frac{7}{16}$	⅞
N	64⅝	60	46¾	77⅛	50	43⅞	64	41⅜	35⅜	37⅞	75	45⅛	54⅝	44⅜	13	28	127⅛	106¾	105⅜	80	69⅝	3$\frac{7}{16}$	⅞
P	70¾	65	50¼	84¼	54⅝	48¾	69½	45¼	39⅝	41⅜	82	49⅜	58¾	47⅞	13	32	138⅞	115¼	114¾	87½	76	3$\frac{15}{16}$	⅞
Q	76¾	72	55⅛	91½	59⅜	52⅝	75¼	49⅛	43	45	89	53½	64⅛	52	14	36	150⅞	127⅛	124⅜	95	82⅝	4½	⅞
R	84¾	78	60¼	101⅛	65⅝	57¾	82¾	54¼	45¾	47¾	99⅜	59	70⅝	54¾	14	42	166⅞	138¼	137	100½	91¼	4½	1

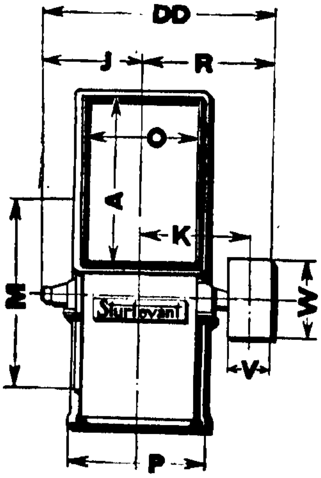
Single Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**





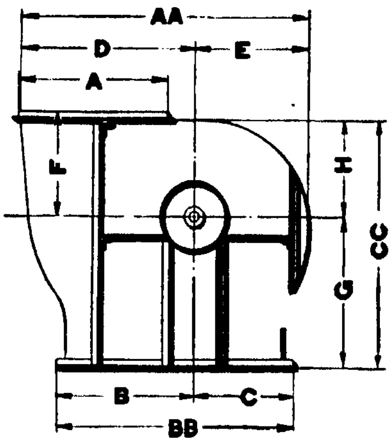
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	16½	22⅞	18¼	26¼	20¼	22¼	33⅞	18¾	19¼	33	20	24⅝	22¾	7	12	44⅝	38⅞	56⅛	41	30⅜	1 13/16	¾
G	32⅝	18	24⅜	20¾	30	22⅝	27½	38⅝	20⅝	21¾	37⅛	22⅞	27⅝	25¾	8	14	50¾	42⅜	66⅛	46⅜	35	2 3/16	¾
H	36⅜	21	28	23⅞	33⅞	25⅝	30¾	43⅝	22⅜	24¼	42¼	25⅜	32¼	28¾	9	16	57⅝	49	74⅛	51½	39¼	2 7/16	¾
J	40⅝	23	30⅜	25⅛	37½	27⅛	34	48¼	25	26¾	46⅞	28½	35	31¾	10	18	63⅝	53⅝	82¼	56¾	43½	2 11/16	⅞
K	46⅜	25½	34⅜	29⅞	43⅛	32¼	38¾	55½	28	29⅝	54	32⅛	39⅛	35⅛	11	20	72⅞	59⅞	94¼	63⅛	50⅛	2 15/16	⅞
L	52⅝	29½	38⅞	33⅝	48⅝	36⅛	43¾	62⅝	30	31⅞	61	36¾	45½	37⅞	12	22	82¼	68⅞	106⅜	67⅞	56⅝	2 15/16	⅞
M	58⅜	32½	42⅞	37½	54¼	40	48⅝	69⅞	33⅝	35⅝	68	40⅞	49⅝	41⅝	12	24	91¾	75⅝	118⅝	74¾	63⅛	3 7/16	⅞
N	64⅝	46⅞	46¾	41⅞	59⅞	43⅞	54	77⅛	35⅝	37⅞	75	45⅛	54⅝	44⅝	13	28	101¼	93⅛	131⅛	80	69⅝	3 7/16	⅞
P	70¾	50¼	50¼	45¼	65½	48⅜	58¾	84½	39⅝	41⅜	82	49⅛	58¾	47⅞	13	32	110¾	100½	143	87½	76	3 11/16	⅞
Q	76⅝	55⅛	55⅛	49⅛	71⅛	52⅝	63½	91½	43	45	89	53⅛	64⅞	52	14	36	120¼	110¼	155	95	82⅝	4⅛	⅞
R	84¾	60¼	60¾	54¼	78⅝	57¾	69¾	101⅛	45¾	47¾	98⅝	59	70⅛	54⅜	14	42	132⅞	120½	170⅞	100½	91¼	4⅛	1

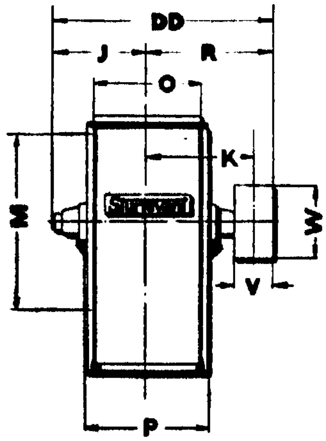
Single Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





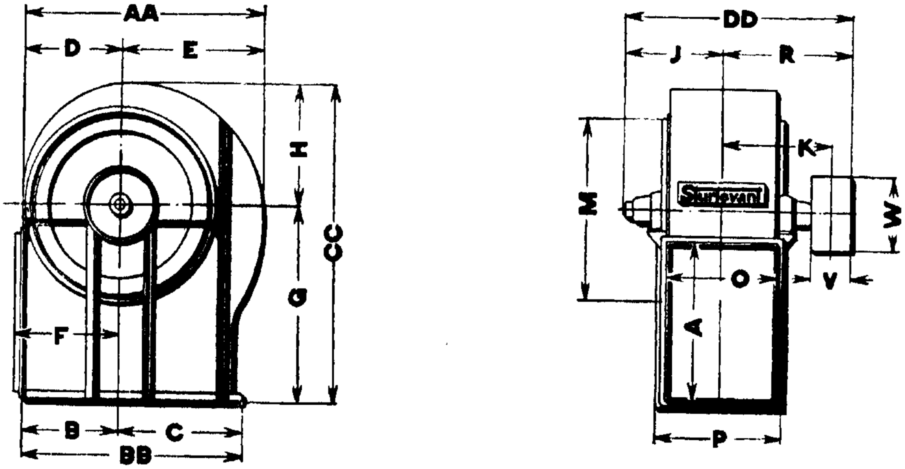
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	26½	19	33⅞	22	20¼	28½	18¼	18¼	19¼	33	20	24⅝	22¾	7	12	55⅞	45¼	46¾	41⅝	30⅝	1 15/16	¾
G	32⅝	30	21¼	38⅜	25⅛	22¾	32½	20¾	20⅜	21¾	37⅝	22⅞	27⅛	25¾	8	14	63⅝	51½	53¼	46⅝	35	2 3/16	¾
H	36⅝	34½	24½	43⅞	28¼	25⅜	36¼	23⅜	22¾	24¼	42¼	25¾	32¼	28¾	9	16	71⅝	59	59⅞	51½	39¼	2 7/16	¾
J	40⅝	38½	27	48¼	31⅜	27⅞	40	25⅞	25	26¾	46⅞	28½	35	31¾	10	18	79⅝	65½	65⅞	56¾	43½	2 11/16	⅞
K	46⅝	43½	30½	55½	36	32¼	45¾	29¾	28	29⅝	54	32⅜	39⅛	35⅛	11	20	91½	74	75½	63⅛	50⅛	2 15/16	⅞
L	52⅝	49½	35	62⅝	40⅝	36⅛	51¾	33⅝	30	31⅞	61	36¾	45¼	37⅞	12	22	103¼	84½	85⅞	67⅞	56⅝	2 15/16	⅞
M	58⅝	54½	38½	69⅞	45⅜	40	57¾	37½	33⅜	35⅜	68	40⅞	49⅜	41⅜	12	24	115¼	93	95¼	74¾	63⅛	3 7/16	⅞
N	64⅝	60	46¼	77⅛	50	43⅞	64	41⅜	35⅜	37⅞	75	45⅛	54⅝	44⅜	13	28	127⅛	106¼	105⅛	80	69⅝	3 7/16	⅞
P	70¾	65	50¼	84¼	54⅜	48¾	69½	45¼	39⅜	41⅜	82	49⅜	58¼	47⅞	13	32	138⅞	115¼	114¾	87½	76	3 15/16	⅞
Q	76¾	72	55⅛	91½	59⅜	52⅝	75¼	49⅛	43	45	89	53½	64⅛	52	14	36	150⅞	127⅛	124⅜	95	82⅝	4½	⅞
R	84¾	78	60¼	101⅛	65⅝	57¾	82¾	54½	45¾	47¾	99⅜	59	70⅜	54¾	14	42	166⅞	138¼	137	100½	91¼	4½	1

Double Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	18¼	22⅜	18¼	26¼	20¼	36¼	22	18¾	19¼	33	20	24⅜	22¼	7	12	44½	40⅝	58¼	41	30⅝	1 15/16	¼
G	32⅜	20¾	24⅝	20¾	30	22¾	41	25⅛	20⅝	21⅜	37⅝	22⅜	27⅜	25¾	8	14	50¾	45⅜	66⅛	46⅜	35	2 3/16	¾
H	36⅝	23⅞	28	23⅞	33¾	25⅜	46	28¼	22¾	24¼	42¼	25¾	32¼	28¾	9	16	57⅝	51⅞	74¼	51½	39¼	2 7/16	¾
J	40⅝	25⅞	30⅝	25⅞	37½	27⅞	50¾	31⅜	25	26¾	46⅞	28½	35	31¾	10	18	63⅜	56½	82⅛	56¾	43½	2 11/16	⅞
K	46⅜	29¾	34⅜	29¾	43⅛	32¼	58¼	36	28	29⅝	54	32⅝	39⅜	35⅝	11	20	72⅞	64⅛	94¼	63⅝	50⅛	2 15/16	⅞
L	52⅝	33⅝	38⅞	33⅝	48⅝	36⅛	65¾	40⅝	30	31⅞	61	36¾	45¼	37⅞	12	22	82¼	72½	106⅜	67⅞	56⅝	2 15/16	⅞
M	58⅝	37½	42⅞	37½	54¼	40	73¼	45⅜	33⅜	35⅜	68	40⅞	49⅜	41⅜	12	24	91¾	80⅜	118⅝	74¾	63⅛	3 7/16	⅞
N	64⅝	41⅜	46¾	41⅜	59⅞	43⅞	81¼	50	35⅝	37⅞	75	45⅜	54⅜	44⅜	13	28	101¼	88⅛	131¼	80	69⅝	3 7/16	⅞
P	70¾	45¼	50¼	45¼	65½	48¾	88¼	54⅝	39⅝	41⅞	82	49⅞	58¾	47⅞	13	32	110¾	95½	142⅞	87½	76	3 15/16	⅞
Q	76¼	49⅛	55⅛	49⅛	71⅛	52⅝	95½	59⅜	43	45	89	53½	64⅞	52	14	36	120¼	104¼	154⅞	95	82⅝	4½	⅞
R	84¾	54¼	60¼	54¼	78⅝	57¾	105½	65⅜	45¾	47⅞	98⅜	59	70⅜	54¾	14	42	132⅞	114½	170⅞	100½	91¼	4½	1

Double Inlet

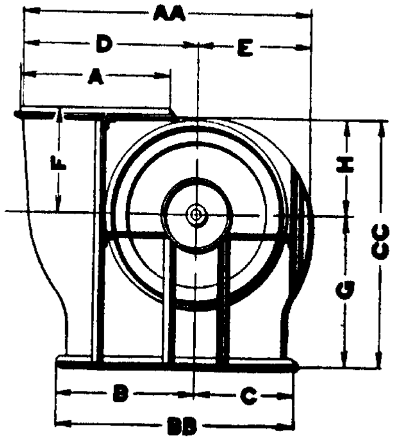
Supervane Fan—Design 1

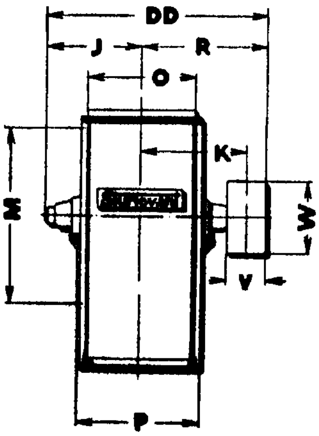
Single Width

Full Housing

Up Blast Discharge

Overhung Pulley





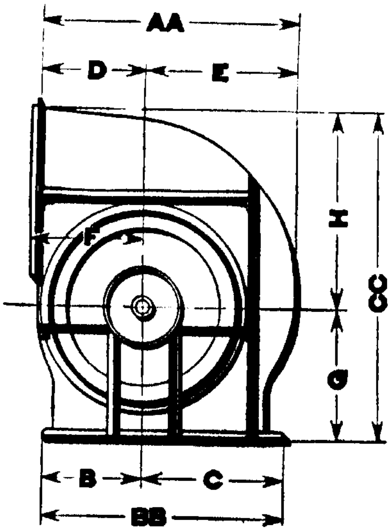
Size	A	B	C	D	E	F	G	H	J	K	L	M	O	P	R	V	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	26½	19	33⅞	22	20¼	28½	18¼	18¼	19¾	33	20	24⅜	22⅜	7	12	55⅞	45½	46¾	41	30⅜	1 15/16	¾
G	32⅜	30	21¼	38⅝	25⅛	22¾	32½	20⅜	20⅜	21¾	37⅜	22⅞	27⅜	25⅜	8	14	63¾	51¼	53¼	46⅜	35	2 3/16	¾
H	36⅝	34½	24½	43⅜	28¼	25⅜	36¼	23⅜	22⅜	24¼	42¼	25⅜	32½	28⅜	9	16	71⅜	59	59⅝	51½	39¼	2 7/16	¾
J	40⅝	38½	27	48¼	31⅞	27⅞	40	25⅞	25	26¾	46⅞	28½	35	31¾	10	18	79⅝	65½	65⅞	56¾	43½	2 11/16	⅞
K	46⅞	43½	30½	55½	36	32¼	45¾	29⅜	28	29⅜	54	32⅜	39⅛	35⅛	11	20	91½	74	75½	63⅛	50⅛	2 15/16	⅞
L	52⅝	49½	35	62⅝	40⅝	36⅛	51¾	33⅜	30	31⅞	61	36⅜	45¼	37⅞	12	22	103¼	84½	85⅜	67⅞	56⅜	2 15/16	⅞
M	58⅝	54½	38½	69⅞	45⅞	40	57¾	37½	33⅜	35⅜	68	40⅞	49⅜	41⅜	12	24	115¼	93	95¼	74¾	63⅛	3 7/16	⅞
N	64⅝	60	46¾	77⅛	50	43⅞	64	41⅞	35⅝	37⅞	75	45⅛	54⅜	44⅜	13	28	127¼	106¾	105⅜	80	69⅜	3 7/16	⅞
P	70¾	65	50¼	84¼	54⅞	48¼	69½	45¼	39⅜	41⅜	82	49⅜	58¼	47⅞	13	32	138⅞	115½	114¼	87½	76	3 15/16	⅞
Q	76¾	72	55⅜	91½	59⅞	52⅜	75¼	49⅜	43	45	89	53½	64⅜	52	14	36	150⅞	127⅛	124⅜	95	82⅜	4½	⅞
R	81¾	78	60¼	101⅛	65⅜	57¼	82¼	54¼	45¾	47¾	98⅜	59	70⅜	54⅝	14	42	166¾	138¼	137	100½	91¼	4½	1

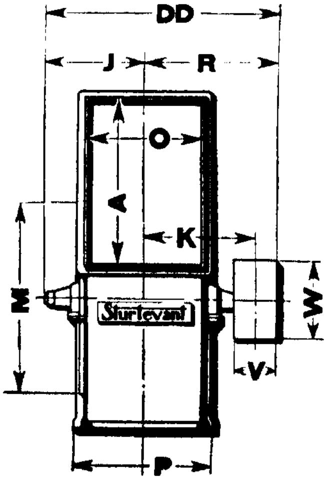
Double Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**





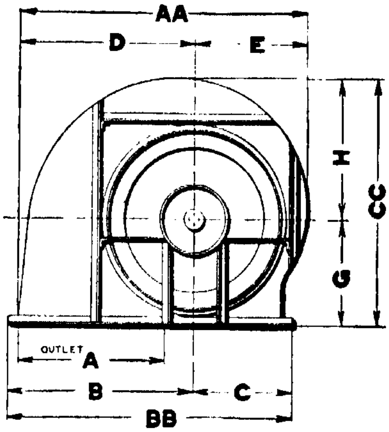
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
F	28½	16½	22⅜	18¼	26¼	20¼	22¼	33⅞	18¾	19¼	33	20	24⅝	22¾	7	12	44½	38⅞	56⅛	41	30⅝	1 15/16	¾
G	32⅜	18	24⅜	20¾	30	22¾	27½	38⅝	20⅝	21¾	37⅝	22⅞	27⅝	25¼	8	14	50⅝	42⅝	66⅛	46⅞	35	2 3/16	¾
H	36⅜	21	28	23⅜	33¾	25⅝	30¼	43⅜	22¾	24¼	42¼	25⅜	32¼	28⅝	9	16	57⅛	49	74⅛	51½	39¼	2 7/16	¾
J	40⅝	23	30⅞	25⅞	37½	27⅞	34	48¼	25	26¾	46⅞	28½	35	31¾	10	18	63⅜	53⅜	82¼	56¾	43½	2 11/16	⅞
K	46⅜	25½	34⅜	29¼	43⅛	32⅛	38¾	55½	28	29⅜	54	32⅜	39⅛	35⅛	11	20	72⅞	59⅞	94¼	63⅛	50⅛	2 15/16	⅞
L	52⅝	29½	38⅞	33⅜	48⅜	36⅜	43⅞	62⅝	30	31⅞	61	36¾	45¼	37⅞	12	22	82¼	68⅜	106⅝	67⅞	56⅝	2 15/16	⅞
M	58⅜	32½	42⅞	37⅛	54⅛	40	48⅝	69⅞	33⅜	35⅝	68	40⅞	49⅜	41⅛	12	24	91¾	75⅜	118⅜	74¾	63⅛	3 7/16	⅞
N	64⅝	46⅞	46¾	41⅝	59⅞	43⅜	54	77⅜	35⅝	37⅞	75	45⅛	54⅜	44⅜	13	28	101¼	93⅛	131⅛	80	69⅝	3 7/16	⅞
P	70⅝	50½	50¼	45¼	65½	48⅛	58¼	84¼	39⅝	41⅜	82	49⅞	58⅞	47⅞	13	32	110¾	100½	143	87½	76	3 15/16	⅞
Q	76¼	55¼	55⅜	49⅜	71⅜	52⅜	63½	91½	43	45	89	53½	64⅞	52	14	36	120¼	110¼	155	95	82⅝	4½	⅞
R	81¾	60¼	60¾	54¼	78⅜	57⅜	69¾	101⅛	45⅜	47¾	98⅝	59	70⅝	54⅞	14	42	132⅞	120½	170⅞	100½	91¼	4½	1

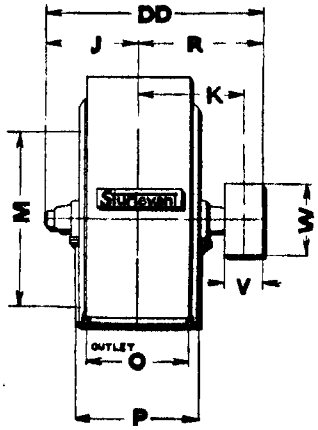
Double Inlet

Supervane Fan—Design 1

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





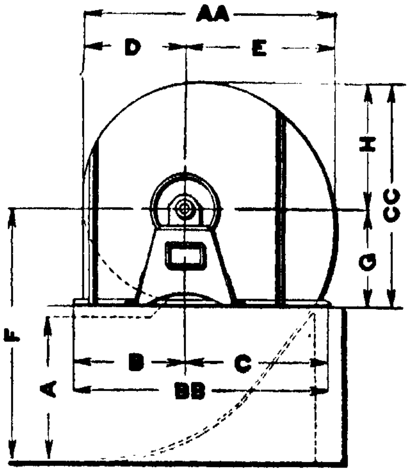
Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts
F	28	36⅞	19	33⅞	22	20½	26¼	18¼	19¼	33	19⅝	24⅝	22¾	7	12	55⅞	55⅞	46¾	41¼	30⅝	1 15/16	¾
G	32	41⅛	21¼	38⅜	25⅛	23¼	30	20⅝	21¾	37⅝	22⅛	27⅛	25¾	8	14	63¼	62⅝	53¼	46⅜	35	2 3/16	¾
H	36	46⅞	24½	43⅛	28⅛	26	33¾	22¾	24¼	42¼	25	32¼	28¾	9	16	71⅛	71⅛	59¾	51⅛	39¼	2 7/16	¾
J	40	51¾	27	48¼	31⅜	28½	37½	25	26¾	46⅞	27¾	35	31¾	10	18	79⅝	78¼	66	56¾	43⅛	2 11/16	⅞
K	46	59	30½	55½	36	32½	43⅛	28	29⅝	54	31⅞	39⅛	35⅛	11	20	91⅛	89⅛	75⅝	63⅛	50⅛	2 15/16	⅞
L	52	67⅛	35	62⅜	40⅝	36¾	48⅝	30	31⅞	61	36	45¼	37⅞	12	22	103½	102⅛	85⅝	67⅞	56⅝	2 15/16	⅞
M	58	74⅜	38½	69⅞	45⅜	41	54¼	33⅝	35⅝	68	40⅛	49⅝	41⅝	12	24	115¼	112⅞	95¼	74⅜	63⅛	3 7/16	⅞
N	64	82⅛	46¾	77⅛	50	45½	59⅞	35⅝	37⅞	75	44⅝	54⅝	44⅝	13	28	127⅛	128⅞	105⅝	80	69⅝	3 7/16	⅞
P	70	89¼	50¼	84½	51⅛	49⅛	65⅛	39⅝	41⅝	82	48½	58⅞	47⅞	13	32	138⅞	139⅛	114¾	87⅛	76	3 15/16	⅞
Q	76	97½	55⅛	91½	59⅞	53¼	71⅛	43	45	89	52⅝	64⅞	52	14	36	150⅞	152⅝	124⅜	95	82⅝	4½	⅞
R	84	107¼	60¼	101⅛	65⅝	58¼	78⅝	45⅝	47¾	98⅝	58⅛	70⅝	54¾	14	42	166⅞	167⅝	136⅞	100½	91½	4½	1

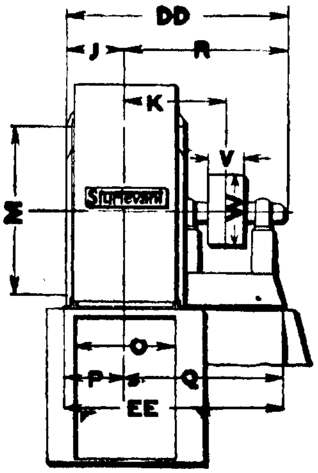
Single Inlet

Supervane Fan—Design 1

Single Width

⅞ Housing **Bottom Horizontal Discharge** **Overhung Wheel**



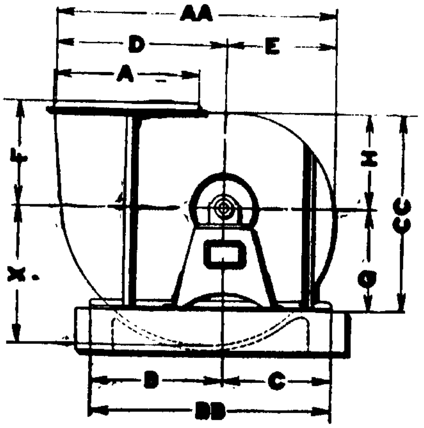


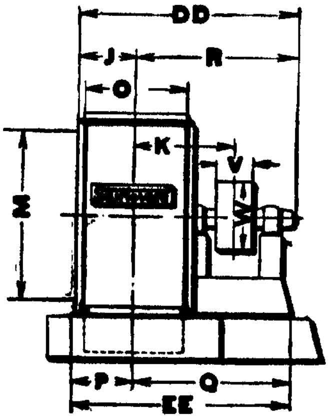
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Fan	Hanger
J	40	31⅛	38¾	27⅝	40⅛	72	28	33⅞	16	28⅛	16⅞	27⅜	17½	43⅜	44⅜	10	18	67½	69⅞	61⅜	60⅝	60⅞	43½	2 11/16	⅞	1
K	46	35¼	43⅜	31⅞	46¼	82	32	38¼	18⅛	31	54	31⅞	19⅜	47½	48¾	11	20	78	79	70¼	66⅞	67⅛	50⅛	2 11/16	⅞	1
L	52	40⅜	50¼	35⅞	52⅛	92	36	43⅛	20⅝	33¼	61	36	22⅜	50	51¼	12	22	88	90⅝	79⅛	71⅜	72⅝	56⅞	2 11/16	⅞	1
M	58	44¼	55½	40	58⅛	102	40	48¼	22¼	36⅞	68	40⅛	24¾	55½	56½	12	24	98⅜	100	88¼	78¾	80¼	63⅛	3 7/16	⅞	1
N	64	49⅞	61½	41⅛	64⅜	112½	41½	53⅛	24⅞	39⅜	75	44⅜	27⅝	58⅜	59⅜	13	28	108¼	110⅜	97⅝	84¼	85¾	69⅞	3 7/16	⅞	1
P	70	53¼	66⅞	48¼	70⅛	122	48	58⅛	26⅞	42⅞	82	48½	29⅝	63⅞	65⅛	13	32	118⅜	120	106⅛	92	93¼	76	3 15/16	⅞	1
Q	76	58⅝	73½	52⅜	76¼	131½	51½	63⅛	29	46½	89	52⅜	32½	69½	71¼	14	36	128⅜	131⅞	114⅝	100¼	102	82⅜	4½	⅞	1¼
R	84	63⅞	80	57⅞	84¼	141½	56½	69¾	32¾	49¼	98⅜	58⅛	35¼	72¼	74	14	42	142⅛	143⅞	126¼	106¾	107½	91¼	4½	1	1¼

Single Inlet **Single Width**

Supervane Fan—Design 1

⅞ Housing **Up Blast Discharge** **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Hanger
J	40⅝	37	27	48¼	31⅜	27⅞	28	25⅞	16	28⅛	46⅞	28½	17½	43⅝	44⅝	10	18	37½	79⅝	64	53⅞	60⅜	60⅞	43½	2 11/16	⅞	1
K	46⅝	41¾	30½	55½	36	32¼	32	29¾	18⅛	31	54	32⅝	19⅝	47½	48¼	11	20	43⅛	91½	72¼	61½	66⅞	67⅛	50⅛	2 15/16	⅞	1
L	52⅝	48¼	35	62⅜	40⅝	36⅛	36	33⅜	20⅛	33¾	61	36¾	22⅝	50	51¼	12	22	48⅝	103¼	83¼	69⅝	71⅜	72⅜	56⅜	2 15/16	⅞	1
M	58⅝	53	38½	69⅞	45⅝	40	40	37½	22¼	36⅞	68	40⅞	24¾	55½	56½	12	24	54¼	115¼	91½	77½	78¾	80¼	63⅛	3 7/16	⅞	1
N	64⅝	59	46¾	77⅛	50	43⅞	44½	41⅞	24⅞	39⅜	75	45⅛	27⅞	58⅝	59⅜	13	28	59⅞	127⅛	105¾	85⅞	84½	85⅝	69⅜	3 7/16	⅞	1
P	70¾	64	50¼	84¼	54⅝	48¾	48	45¾	26⅞	42⅞	82	49⅝	29⅝	63⅞	65⅛	13	32	65½	138⅞	114¼	93¼	92	93¼	76	3 15/16	⅞	1
Q	76¾	70½	55½	91½	59⅜	52⅝	51½	49⅛	29	46½	89	53⅛	32½	69½	71¼	14	36	71⅛	150⅞	126	100⅝	100¼	102	82⅜	4½	⅞	1¼
R	84¾	77	60¼	101⅛	65⅝	57¼	56½	54¼	32¾	49¼	98⅜	59	35¼	72¼	74	14	42	78⅜	166⅞	137¼	110⅜	106¾	107½	91½	4½	1	1¼

Single Inlet

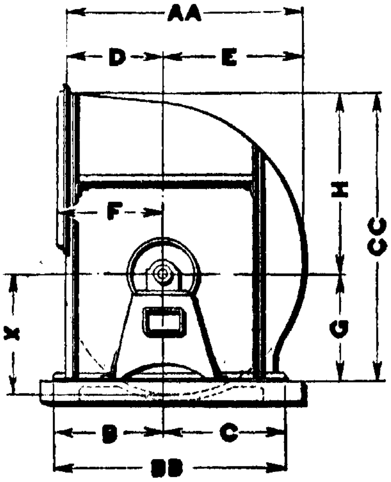
Supervane Fan—Design 1

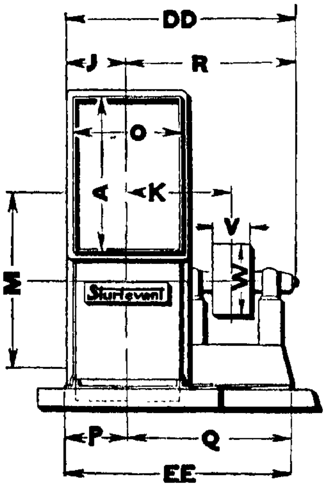
Single Width

7/8 Housing

Top Horizontal Discharge

Overhung Wheel



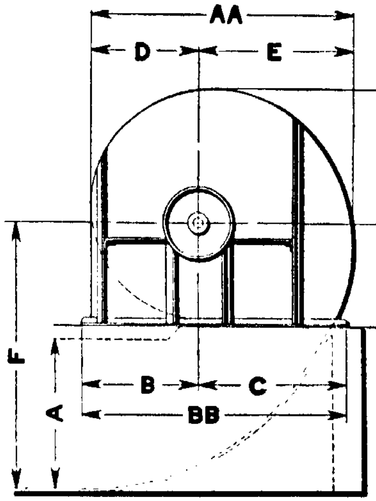


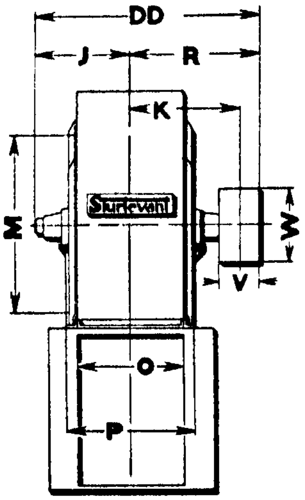
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																										Fan	Hanger
J	40⅝	23	30⅝	25⅛	37½	27⅞	28	48½	16	28⅛	46⅞	28½	17½	43⅜	44⅝	10	18	31⅝	63⅝	53⅝	76½	60⅝	60⅞	43½	2 11/16	⅞	1
K	46⅝	25½	34⅜	29⅞	46⅛	32¼	32	55¼	18⅛	31	54	32⅜	19⅜	47½	48¾	11	20	36	72⅞	59⅞	87½	66⅞	67⅛	50⅛	2 15/16	⅞	1
L	52⅝	29½	38⅞	33⅜	48⅝	36⅛	36	62⅞	20⅛	33⅛	61	36⅞	22⅝	50	51¼	12	22	40⅝	82¼	68⅝	98⅝	71⅜	72⅜	56⅝	2 15/16	⅞	1
M	58⅝	32½	42⅞	37⅛	54⅛	40	40	69⅞	22¼	36⅛	68	40⅞	24⅜	55½	56¼	12	24	45⅜	91¾	75⅞	109⅞	78¾	80¼	63⅛	3 7/16	⅞	1
N	64⅝	46⅝	46⅜	41⅜	59⅞	43⅞	44½	77⅛	24⅞	39⅜	75	45⅛	27⅜	58⅜	59⅜	13	28	50	101¼	93⅛	121⅝	84¼	85¾	69⅝	3 7/16	⅞	1
P	70⅝	50¼	50¼	45¼	65⅛	48⅜	48	84¼	26⅞	42⅞	82	49⅜	29⅜	63⅞	65⅛	13	32	54⅝	110¾	100½	132¼	92	93¼	76	3 15/16	⅞	1
Q	76⅝	55⅛	55⅛	49⅛	71⅛	52⅜	51½	91¼	29	46⅛	89	53½	32½	69½	71¼	14	36	59⅜	120¼	110¼	132¼	100¼	102	82⅝	4½	⅞	1¼
R	84⅝	60¼	60¼	54¼	78⅝	57⅜	56½	101⅛	32¾	49¼	98⅜	59	35¼	72¼	74	14	42	65⅝	132⅞	120½	157⅝	106¾	107½	91¼	4½	1	1¼

Single Inlet | **Single Width**

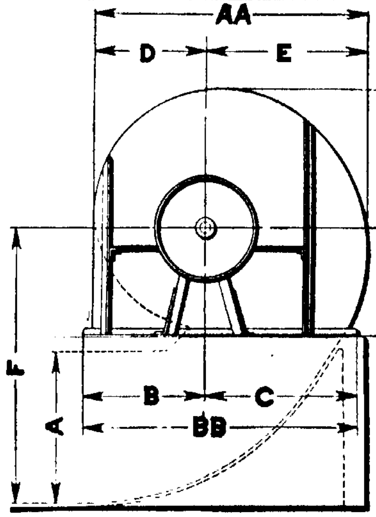
Supervane Fan—Design 1

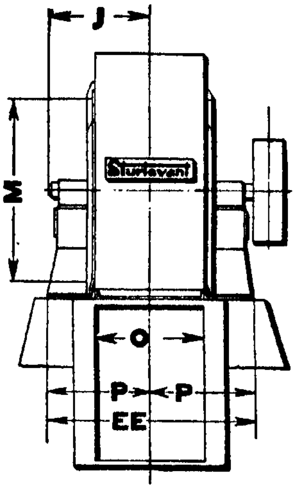
⅞ Housing | **Bottom Horizontal Discharge** | **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40	31⅛	38¾	27⅞	40⅛	72	28	33⅛	25	26¾	46⅞	27¾	35	31⅜	10	18	67¾	69⅞	61⅜	56¾	43½	2 11/16	⅞
K	46	35¼	43¾	31¾	46¼	82	32	38¼	28	29⅝	54	31⅞	39⅛	35⅛	11	20	78	79	70¼	63⅛	50⅛	2 15/16	⅞
L	52	40⅜	50¼	35⅞	52⅛	92	36	43⅛	30	31⅞	61	36	45¼	37⅞	12	22	88	90⅝	79⅛	67⅞	56⅝	2 15/16	⅞
M	58	41½	55½	40	58⅛	102	40	48¼	33⅜	35⅝	68	40⅛	49⅜	41⅜	12	24	98⅛	100	88¼	74¾	63⅛	3 7/16	⅞
N	61	49⅛	61½	41⅛	64⅛	112½	44½	53⅛	35⅝	37⅞	75	44⅝	54⅝	44⅞	13	28	108¼	110⅝	97⅜	80	69⅝	3 7/16	⅞
P	70	53¼	66¼	48⅛	70⅛	122	48	58⅛	39⅞	41⅞	82	48½	58¾	47⅞	13	32	118⅜	120	106⅛	87½	76	3 15/16	⅞
Q	76	58⅛	73½	52⅛	76¼	131½	51½	63⅛	43	45	89	52⅝	64⅞	52	14	36	128⅝	131⅞	114⅝	95	82⅝	4½	⅞
R	81	63⅞	80	57⅞	81¼	144½	56½	69¾	45¾	47⅜	98⅞	58⅜	70⅜	54⅜	14	42	142⅜	143⅞	126¼	100¼	91¼	4½	1





Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	AA	BB	CC	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Pedestal
S	92	69⅞	87¼	63⅛	92⅛	157	61	76⅜	54⅛	107¾	63¼	53	155½	156⅝	137⅜	106	99⅞	5	1	1¼
T	100	74⅞	94½	68⅞	100¼	170	66	83	56⅞	117⅛	69¼	56¼	169⅛	169⅜	149	112½	108½	5	1	1¼
U	108	80⅜	101½	74⅜	108⅛	182½	70½	89½	64¼	126⅞	74¼	64½	182½	181⅞	160	129	117⅛	5½	1	1¼
V	116	85⅞	109½	79⅞	116⅜	195	75	96⅛	67⅜	135⅜	80¼	68¾	196	195⅜	171⅛	137½	125¾	6	1	1¼
W	128	94⅛	120½	88⅛	128¼	214	82	106⅛	71⅞	149⅝	88⅝	73⅞	216⅜	214⅝	188⅛	147¼	138¾	6	1	1¼
X	140	102¾	130	96⅞	140⅛	234	90	116⅛	76	163¾	96⅞	79	236½	232⅜	206⅛	158	151¾	6	1⅛	1½
Y	152	110½	141	104½	152⅛	253	97	126	80⅛	177¾	105¼	83¼	256⅜	251½	223	167½	164⅜	6	1⅛	1½

Single Inlet

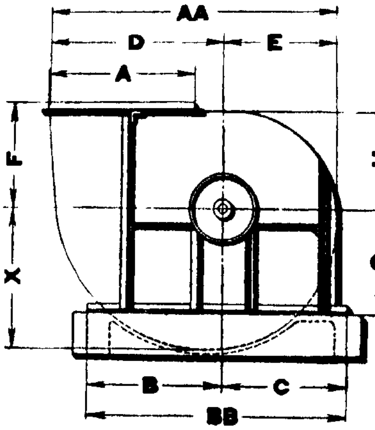
Supervane Fan—Design 1

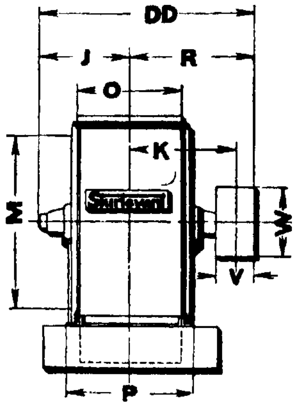
Single Width

7/8 Housing

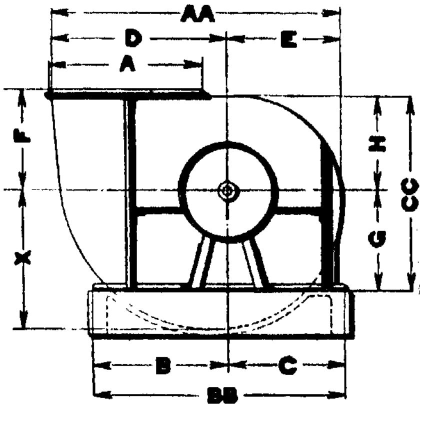
Up Blast Discharge

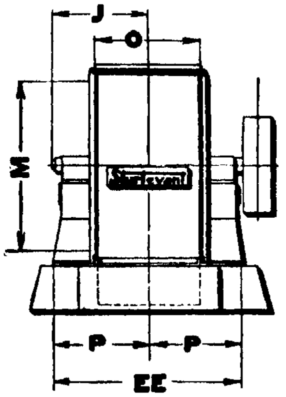
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40¾	37	27	48¼	31⅞	27⅞	28	25⅞	25	26¾	46⅞	28⅛	35	31¾	10	18	37½	79⅝	64	53⅞	56¾	43½	2 11/16	⅞
K	46⅝	41⅝	30½	55⅛	36	32¼	32	29⅛	28	29⅝	54	32⅝	39⅛	35⅛	11	20	43⅛	91½	72¼	61¾	63⅛	50⅛	2 15/16	⅞
L	52⅝	48¼	35	62⅝	40⅝	36⅛	36	33⅝	30	31⅞	61	36¾	45¼	37⅞	12	22	48⅝	103¼	83¼	69⅝	67⅞	56⅝	2 15/16	⅞
M	58⅜	53	38½	69⅞	45⅜	40	40	37⅛	33⅝	35⅜	68	40⅞	49⅜	41⅞	12	24	54¼	115¼	91½	77½	74¾	63⅛	3 7/16	⅞
N	64⅜	59	46⅜	77⅛	50	43⅞	44¼	41⅛	35⅝	37⅞	75	45⅛	54⅝	44⅜	13	28	59⅞	127⅛	105¼	85⅞	80	69⅝	3 7/16	⅞
P	70¼	64	50¼	84¼	54⅜	48⅞	48	45¼	39⅝	41⅞	82	49⅝	58⅞	47⅞	13	32	65½	138⅞	114¼	93¼	87½	76	3 15/16	⅞
Q	76¼	70½	55⅛	91½	59⅜	52⅝	51⅛	49⅜	43	45	89	53⅛	64⅞	52	14	36	71⅛	150⅞	125⅜	100⅝	95	82⅝	4 7/16	⅞
R	84¼	77	60¼	101⅛	65⅜	57⅝	56⅛	54¼	45⅛	47¾	98⅜	59	70¾	54¾	14	42	78⅝	166¼	137¼	110¾	100⅛	91½	4 7/16	1





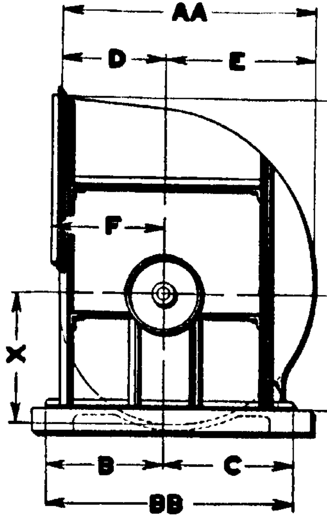
Size	A	B	C	D	E	F	G	H	J	M	O	P	X	AA	BB	CC	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																				Fan	Pedestal
S	92¾	84	65¾	110¾	71⅞	63⅞	61	59⅞	54⅛	107¾	64¾	53	86	182⅞	149⅜	120⅜	106	99⅞	5	1	1¼
T	100⅞	91	70¾	120⅞	78⅛	69⅛	66	64⅝	56⅞	117⅛	70¾	56⅛	93½	198½	161⅝	130⅝	112⅛	108½	5	1	1¼
U	108⅞	97½	75¾	130	84¼	74¼	70½	69¾	64⅝	126⅜	75¼	64⅛	100⅞	214¼	173¼	140¼	129	117⅛	5½	1	1¼
V	116⅞	105½	80⅞	139⅜	90⅛	79⅜	75	74⅞	67⅝	135⅜	81¼	68⅞	108⅜	230⅛	186⅜	149⅞	137½	125¾	6	1	1¼
W	128⅞	116½	88⅜	154	99⅞	87⅛	82	82⅝	71⅞	149⅝	89⅝	73⅞	119⅝	253⅞	205⅛	164⅝	147¾	138¾	6	1	1¼
X	140⅞	125½	96⅞	168½	109⅛	95⅞	90	90⅞	76	163⅞	97⅛	79	130¾	277¾	221⅞	180⅜	158	151¾	6	1⅛	1¼
Y	152⅞	136	104	182⅞	118⅞	103	97	98	80⅛	177⅞	106⅛	83⅛	142	301⅛	240	195	167⅛	164⅝	6	1⅛	1½

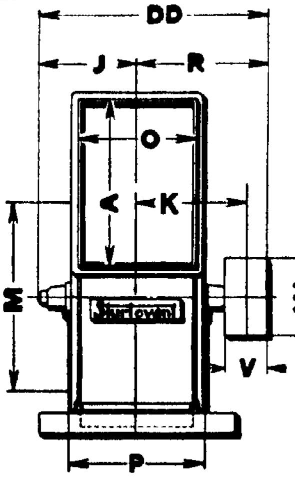
Single Width

Supervane Fan—Design 1

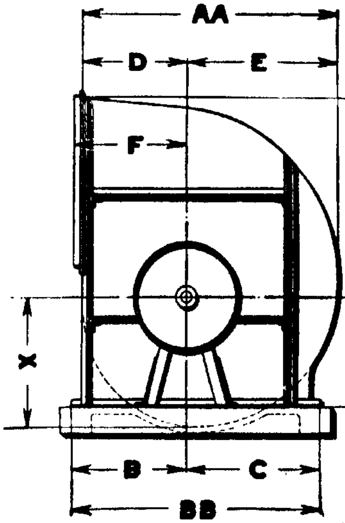
Single Inlet

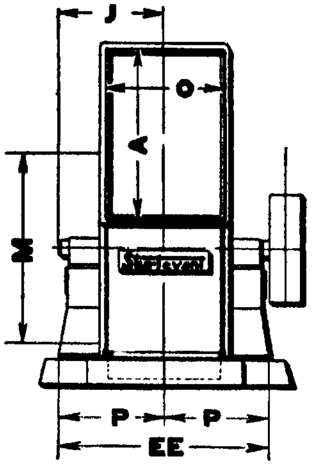
⅞ Housing **Top Horizontal Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40⅝	23	30⅝	25⅞	37½	27⅞	28	48¼	25	26¾	46⅞	28½	35	31¾	10	18	31⅜	63⅜	53⅜	76¼	56¾	43½	2 11/16	⅞
K	46⅝	25½	34⅝	29¾	43¼	32¼	32	55½	28	29⅝	54	32⅝	39⅛	35⅛	11	20	36	72¼	59⅞	87½	63⅛	50⅛	2 11/16	⅞
L	52⅝	29½	38⅞	33⅝	48⅝	36⅛	36	62⅝	30	31⅞	61	36¾	45½	37⅞	12	22	40⅝	82¼	68⅝	98⅝	67⅞	56⅝	2 11/16	⅞
M	58⅝	32½	42⅞	37½	54¼	40	40	69⅞	33⅜	35⅜	68	40⅛	49⅜	41⅜	12	24	45⅜	91¾	75⅜	109⅞	74¾	63⅛	3 7/16	⅞
N	61⅝	46⅜	46¼	41⅜	59⅞	43⅞	44½	77⅛	35⅝	37⅛	75	45⅛	54⅝	44⅞	13	28	50	101½	93⅛	121⅛	80	69⅝	3 7/16	⅞
P	70¾	50¼	50¼	45¼	65⅛	48¾	48	84¼	39⅝	41⅝	82	49⅜	58¾	47⅞	13	32	54⅜	110⅜	100⅛	132¼	87½	76	3 15/16	⅞
Q	76¾	55⅛	55⅛	49⅛	71⅛	52⅝	51½	91½	43	45	89	53½	64⅞	52	14	36	59⅜	120½	110¼	143	95	82⅝	4½	⅞
R	84¾	60¼	60¼	54¼	78⅝	57¾	56½	101⅛	45¾	47¾	98⅝	59	70⅜	54¾	14	42	65⅜	132⅜	120½	157⅜	100½	91¼	4½	1





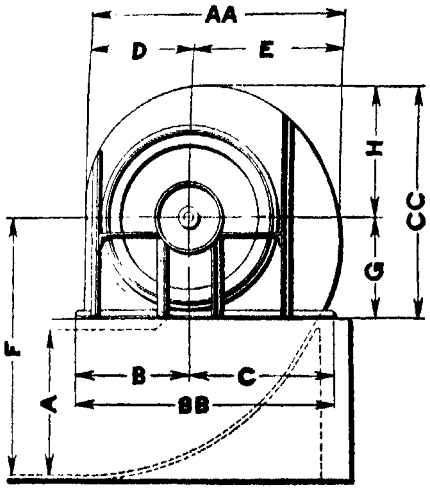
Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	X	AA	BB	CC	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																				Fan	Ped.
S	92⅞	65⅜	65⅜	59⅜	86	63⅞	61	110¾	54⅛	107¾	64¾	53	71⅞	145⅞	130¼	171¼	106	99⅞	5	1	1¼
T	100⅞	70⅜	70⅜	64⅜	93½	69⅛	66	120⅜	56⅞	117¼	70¼	56¼	78⅛	158⅛	141¼	186⅜	112½	108½	5	1	1¼
U	108⅞	75¾	75¾	69¾	100⅞	74¼	70½	130	64⅝	126⅜	75¾	64½	84¼	170⅝	151½	200¼	129	117⅛	5½	1	1¼
V	116⅞	80⅞	80⅞	74⅞	108⅞	79¾	75	139⅝	67⅝	135⅜	81¼	68¾	90½	183¼	161⅜	214⅜	137½	125¾	6	1	1¼
W	128⅞	88⅝	88⅝	82⅝	119⅝	87⅛	82	154	71⅞	149⅝	89⅝	73⅞	99⅞	202¼	177⅛	236	147¾	138¾	6	1	1¼
X	140⅞	96⅜	96⅜	90⅜	130¾	95⅜	90	168½	76	163¾	97½	79	109¼	221⅛	192¾	258⅛	158	151¾	6	1¼	1¼
Y	152⅞	104	104	98	142	103	97	182⅞	80⅛	177¾	106¼	83¾	118⅝	240	208	279⅞	167½	164⅝	6	1¼	1¼

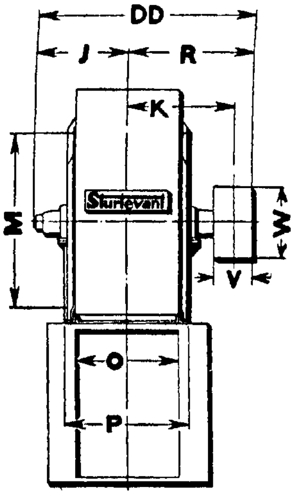
Double Inlet

Supervane Fan—Design 1

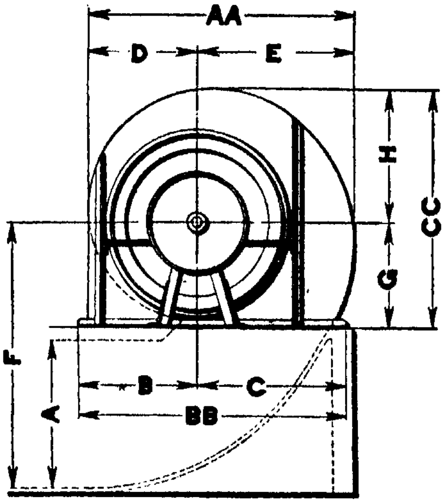
Single Width

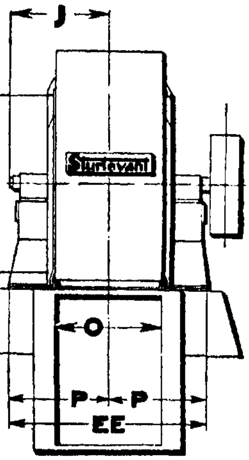
⅞ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40	31⅛	38¾	27⅝	40⅛	72	28	33⅜	25	26¾	46⅞	27⅜	35	31¾	10	18	67¾	69⅞	61⅜	56¾	43½	2 11/16	⅞
K	46	35¼	43¾	31¾	46¼	82	32	38¼	28	29⅝	54	31⅞	39⅜	35⅛	11	20	78	79	70¼	63⅛	50⅛	2 15/16	⅞
L	52	40⅛	50¼	35⅞	52⅛	92	36	43⅛	30	31⅞	61	36	45½	37⅞	12	22	88	90⅜	79⅛	67⅞	56⅝	2 15/16	⅞
M	58	44½	55½	40	58⅛	102	40	48¼	33⅜	35⅜	68	40⅛	49⅞	41⅜	12	24	98⅛	100	88¼	74¾	63⅛	3 7/16	⅞
N	64	49⅛	61½	44⅛	64⅛	112½	44½	53⅛	35⅝	37⅞	75	44⅜	54⅜	44⅜	13	28	108¼	110⅝	97⅝	80	69⅝	3 7/16	⅞
P	70	53¼	66¾	48¼	70⅛	122	48	58⅛	39⅝	41⅜	82	48⅛	58⅞	47⅞	13	32	118⅜	120	106⅛	87½	76	3 15/16	⅞
Q	76	58⅜	73½	52⅜	76¼	131½	51½	63¼	43	45	89	52⅜	64⅞	52	14	36	128⅝	131⅞	114¾	95	82⅝	4 7/16	⅞
R	84	63⅞	80	57⅞	84½	141½	56½	69¾	45¾	47¾	98¼	58⅛	70⅜	54½	14	42	142⅜	143⅞	126¼	100¼	91¼	4 7/16	1





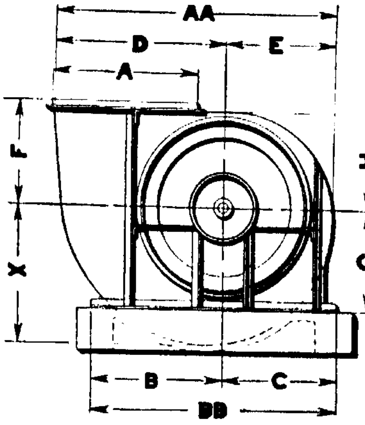
Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	AA	BB	CC	DD	Wheel Dia.	Shaft Diameter	Anchor Bolts	
																			Fan	Pedestal
S	92	69⅜	87¼	63⅜	92⅛	157	61	76⅜	54⅛	107¾	63¾	53	155½	156⅝	137⅜	106	99⅞	5	1	1¼
T	100	74⅞	94½	68⅞	100¼	170	66	83	56⅞	117⅛	69¼	56¼	169⅛	169⅜	149	112½	108¼	5	1	1¼
U	108	80⅜	101½	74⅜	108⅛	182½	70½	89½	64⅜	126⅜	74¾	64½	182½	181⅞	160	129	117⅛	5½	1	1¼
V	116	85⅞	109½	79⅞	116⅛	195	75	96⅛	67⅜	135⅝	80¼	68¾	196	195⅜	171⅛	137½	125¾	6	1	1¼
W	128	94⅛	120½	88⅛	128¼	214	82	106⅛	71⅞	149⅝	88⅝	73⅞	216⅜	214⅝	188⅛	147¾	138¾	6	1	1¼
X	140	102⅜	130	96⅜	140⅛	234	90	116⅛	76	163¾	96⅞	79	236½	232⅜	206⅛	158	151¼	6	1⅛	1¼
Y	152	110½	141	104⅜	152¼	253	97	126	80⅛	177¾	105¼	83¾	256⅝	251½	223	167½	164⅜	6	1⅛	1¼

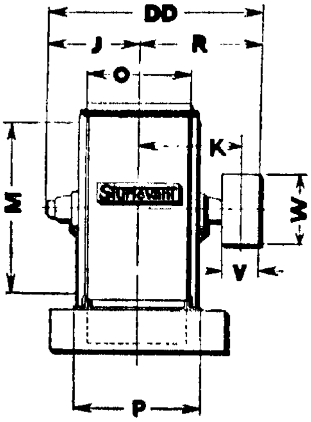
Double Inlet

Supervane Fan—Design 1

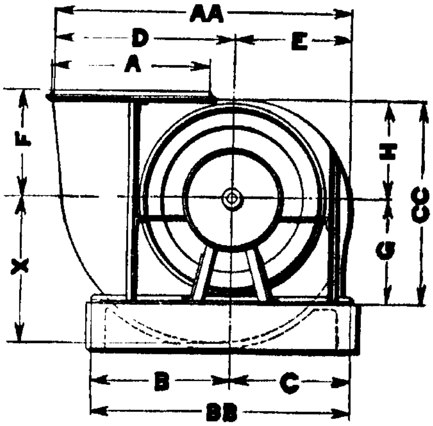
Single Width

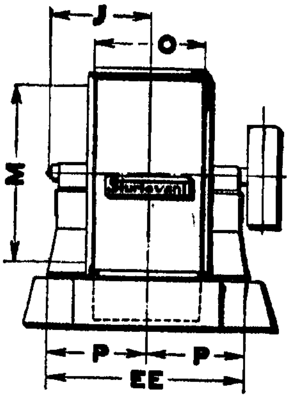
⅞ Housing **Up Blast Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40⅜	37	27	48¼	31⅛	27⅞	28	25⅞	25	26¾	46⅞	28⅛	35	31½	10	18	37½	79⅜	64	53⅞	56¾	43½	2 11/16	⅞
K	46⅜	41¾	30½	55½	36	32¼	32	29¼	28	29⅜	54	32⅜	39⅛	35⅛	11	20	43⅛	91⅛	72¼	61¼	63⅛	50⅛	2 15/16	⅞
L	52⅜	48¼	35	62⅜	40⅝	36⅛	36	33⅝	30	31⅞	61	36¼	45¼	37⅞	12	22	48⅜	103¼	83¼	69⅞	67⅞	56⅝	2 15/16	⅞
M	58⅜	53	38½	69⅞	45¾	40	40	37½	33⅜	35⅜	68	40⅞	49⅞	41⅜	12	24	54¼	115¼	91½	77½	71¾	63⅛	3 7/16	⅞
N	64⅜	59	46¼	77⅛	50	43⅞	44½	41⅛	35⅝	37⅞	75	45⅛	54⅝	44⅝	13	28	59⅞	127⅛	105¾	85⅞	80	69⅜	3 7/16	⅞
P	70¼	64	50¼	84¼	54⅝	48¾	48	45¼	39⅞	41⅜	82	49⅝	58¾	47⅞	13	32	65½	138⅞	114¼	93¼	87½	76	3 15/16	⅞
Q	76¼	70½	55⅛	91½	59⅞	52⅝	51½	49⅛	43	45	89	53⅜	64⅞	52	14	36	71⅛	150⅞	125⅝	100⅝	95	82⅝	4½	⅞
R	81¾	77	60¼	101⅛	65⅜	57¾	56½	54¼	45¾	47¼	98⅜	59	70⅜	54¾	14	42	78⅜	166¾	137¼	110¾	100½	91¼	4½	1





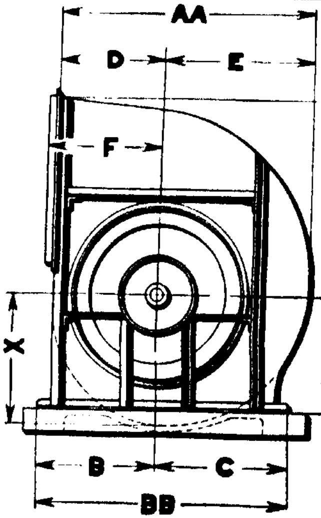
Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	X	AA	BB	CC	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Pedestal
S	92⅞	84	65⅜	110¾	71⅞	63⅞	61	59⅜	54⅛	107¾	64¾	53	86	182⅝	149⅛	120⅝	106	99⅞	5	1	1¼
T	100⅞	91	70⅜	120⅜	78⅛	69⅛	66	64⅝	56⅞	117⅛	70¼	56¼	93⅛	198½	161⅝	130⅝	112½	108½	5	1	1¼
U	108⅞	97½	75¼	130	84¼	74¼	70½	69¼	64⅜	126⅜	75¼	64½	100⅞	214¼	173¼	140¼	129	117⅛	5½	1	1¼
V	116⅞	105½	80⅞	139⅝	90½	79⅜	75	74⅞	67⅝	135⅝	81¼	68¾	108⅜	230⅛	186⅜	149⅞	137½	125¾	6	1	1¼
W	128⅞	116½	88⅝	154	99⅞	87⅛	82	82⅝	71⅞	149⅝	89⅝	73⅞	119⅝	253⅞	205⅛	164⅝	147¾	138¾	6	1	1¼
X	140⅞	125½	96⅞	168½	109¼	95⅝	90	90⅞	76	163⅜	97½	79	130⅞	277¾	221⅞	180⅜	158	151¾	6	1⅛	1¼
Y	152⅞	136	104	182⅞	118⅝	103	97	98	80⅛	177¾	106¼	83¾	142	301½	240	195	167½	164⅝	6	1⅛	1¼

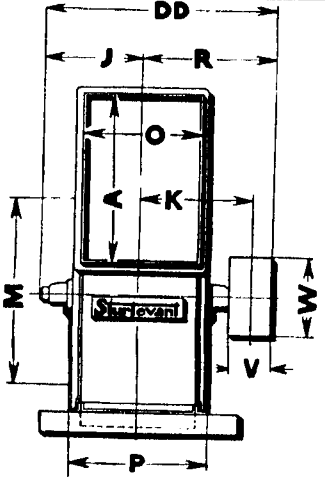
Double Inlet

Supervane Fan—Design 1

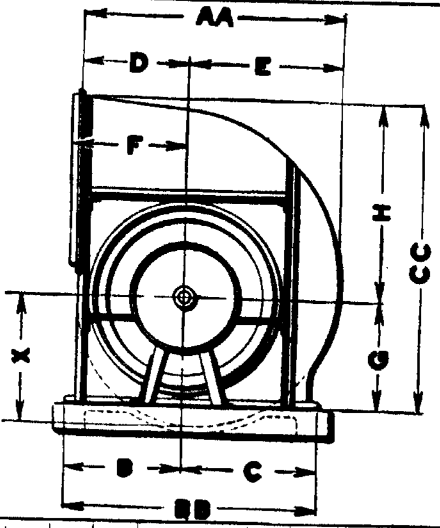
Single Width

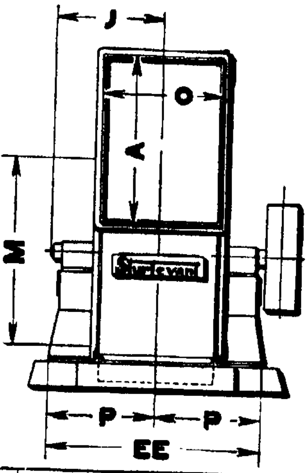
7/8 Housing **Top Horizontal Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diamete.	Shaft Diameter	Anchor Bolts
J	10⅝	23	30⅛	25⅞	37½	27⅞	28	48¼	25	26¾	46⅞	28½	35	31¼	10	18	31⅜	63⅜	53⅞	76¼	56¼	43½	2 11/16	7/8
K	46⅝	25½	34⅜	29¾	43⅛	32¼	32	55½	28	29⅝	54	32⅝	39⅛	35⅛	11	20	36	72⅞	59⅞	87½	63⅛	50⅛	2 13/16	7/8
L	52⅜	29½	38⅞	33⅝	48⅝	36⅛	36	62⅜	30	31⅞	61	36¾	45¼	37⅞	12	22	40⅜	82¼	68⅛	98⅝	67⅞	56⅝	2 15/16	7/8
M	58⅝	32½	42⅞	37½	54¼	40	40	69⅞	33⅜	35⅜	68	40⅞	49⅜	41⅜	12	21	45⅜	91¾	75⅜	109⅞	74¼	63⅛	3 7/16	7/8
N	64⅝	46¾	46¾	41⅝	59⅞	43⅞	44½	77⅛	35⅝	37⅞	75	45⅛	54⅝	44⅜	13	28	50	101¼	93⅛	121⅝	80	69⅝	3 7/16	7/8
P	70¾	50¼	50¼	45¼	65½	48⅞	48	84¼	39⅝	41⅝	82	49⅝	58¾	47⅞	13	32	54⅝	110¾	100½	132¼	87½	76	3 15/16	7/8
Q	76¾	55⅛	55⅛	49⅛	71⅛	52⅝	51½	91½	43	45	89	53½	64⅞	52	14	36	59⅞	120¼	110¼	143	95	82⅝	4½	7/8
R	84¾	60¼	60¼	54¼	78⅝	57¾	56½	101¼	45¾	47⅞	98⅝	59	70⅜	54¾	14	42	65⅝	132⅞	120½	157⅝	100½	91¼	4½	1





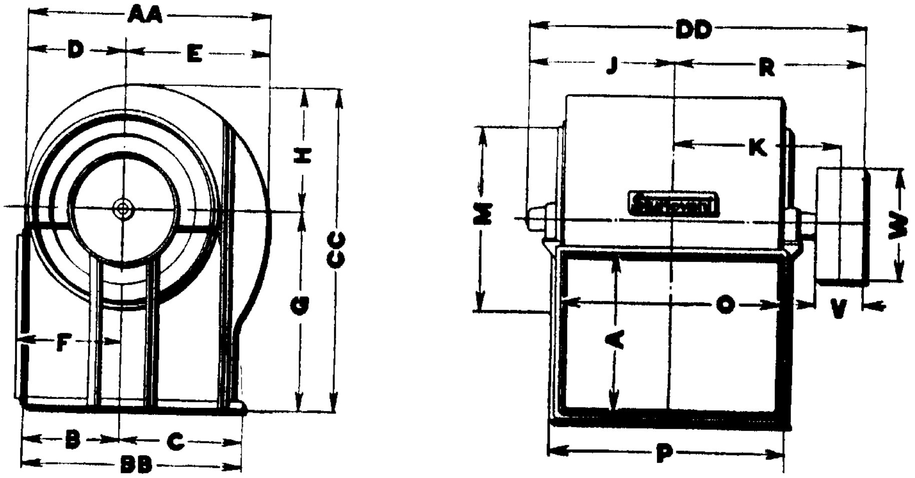
Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	X	AA	BB	CC	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																				Fan	Pedestal
S	92⅞	65⅜	65⅜	59⅞	86	63⅞	61	110¾	54⅛	107¾	64¾	53	71⅞	145⅜	130¾	171¾	106	99⅞	5	1	1¼
T	100⅞	70⅜	70⅜	64⅜	93¼	69⅛	66	120⅜	56⅞	117⅛	70¼	56¼	78⅝	158⅛	141¼	186⅜	112½	108⅛	5	1	1¼
U	108⅞	75¼	75¼	69¾	100⅞	74¼	70½	130	64	126⅜	75¾	64½	84¼	170⅜	151½	200½	129	117⅛	5½	1	1¼
V	116⅞	80⅞	80⅞	74⅞	108⅜	79⅞	75	139⅝	67⅜	135⅝	81¼	68¾	90½	183¼	161¾	214⅝	137½	125¾	6	1	1¼
W	128⅞	88⅝	88⅝	82⅝	119¾	87⅛	82	154	71⅜	149⅝	89⅝	73⅞	99⅞	202¼	177¼	236	147¾	138¾	6	1	1¼
X	140⅞	96⅜	96⅜	90⅜	130¼	95⅛	90	168½	76	163¾	97½	79	109¼	221⅛	192¾	258½	158	151¼	6	1⅛	1¼
Y	152⅞	104	104	98	142	103	97	182⅞	80⅛	177¾	106¼	83¾	118⅝	240	208	279¾	167½	164⅜	6	1¼	1¼

Double Inlet

Supervane Fan—Design 1

Double Width

Full Housing | **Bottom Horizontal Discharge** | **Overhung Pulley**



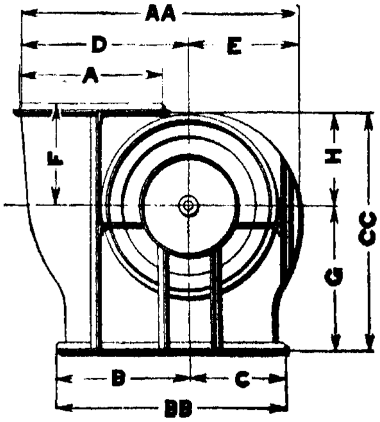
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts
A	13½	8½	11¼	8½	12¼	9¾	17¼	10¼	14	15⅝	15⅝	18⅝	22¼	17⅜	4	8	20¾	19¾	27½	31⅜	14¼	1¼	½
B	16½	10½	13¼	10½	15⅛	12	21	12⅝	16⅝	18½	19	22⅞	26½	21	5	10	25⅝	23¾	33⅝	37⅝	17⅝	1⅜	½
C	19½	12⅜	15⅞	12⅜	17⅞	13⅞	25	15	19	21⅝	22½	27⅛	31⅜	24⅝	6	12	30¼	27⅜	40	43⅝	20⅞	1½	½
D	22½	14⅜	18	14⅜	20⅝	16¾	28¾	17¼	21½	24	26	31⅛	35⅜	27	6	14	35	31½	46	48½	24⅛	1 11/16	⅝
E	25½	16¼	20⅛	16¼	23½	18¼	32½	19⅝	24½	27⅛	29½	35⅜	40	30⅜	7	16	39¾	35⅛	52⅛	54⅞	27⅜	1 13/16	⅝
F	28½	18¼	22⅜	18¼	26¼	20¼	36¼	22	26¼	29½	33	39⅝	44	33½	8	18	44½	40⅝	58¼	59¾	30⅝	1 15/16	¾
G	32⅜	20¾	21⅝	20¾	30	22¾	41	25⅛	29¾	33¼	37⅝	45	49½	37¾	9	20	50¾	45⅛	66⅛	67½	35	2 3/16	¾
H	36⅝	23⅜	28	23⅜	33¾	25⅛	46	28¼	33⅛	37⅛	42¼	50¾	57¼	42⅛	10	22	57⅛	51⅜	74¼	75¼	39¼	2 7/16	¾
J	40⅝	25⅞	30¾	25⅞	37½	27⅞	50¾	31⅝	36⅝	41½	46⅞	56¼	62¾	47¼	12	24	63⅜	56¼	82⅜	83⅞	43½	2 11/16	⅞
K	46⅝	29¾	34⅝	29¾	43⅛	32¼	58¼	36	41¼	46¼	54	64½	71	52¾	13	28	72⅞	64⅛	94¼	94	50⅛	2 15/16	⅞
L	52⅜	33⅝	38⅞	33⅝	48⅝	36⅛	65¾	40⅝	46⅝	52⅛	61	72¾	81¼	59⅛	14	32	82¼	72½	106⅜	105¾	56⅝	3 7/16	⅞
M	58⅝	37½	42⅞	37½	54¼	40	73¼	45⅜	52¼	58¼	68	81	89½	65¾	15	36	91¾	80⅜	118⅝	118	63⅛	3 15/16	⅞
N	64⅝	41⅜	46¼	41⅜	59⅞	43⅞	81¼	50	56⅝	62½	75	89½	99	70	15	40	101¼	88⅛	131¼	126⅝	69⅝	3 15/16	⅞
P	70¾	45¼	50¼	45¼	65½	48¾	88½	54⅜	61¾	68⅛	82	97⅞	107¼	76⅛	16	42	110¾	95½	142⅞	137⅞	76	4½	⅞
Q	76¾	49⅛	55⅛	49⅛	71⅛	52⅜	95½	59⅜	67½	73¾	89	106⅛	117½	81¾	16	46	120¼	104¼	154⅞	149¼	82⅝	5	⅞
R	81¾	54¼	60¼	51¼	78⅝	57¾	105¼	65⅝	73	79¼	98⅝	117⅛	128½	87¼	16	48	132⅞	114½	170⅞	160¼	91¼	5	1

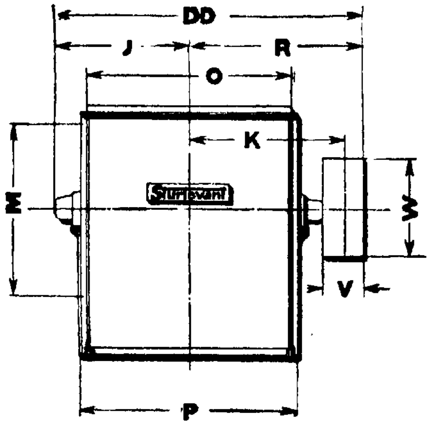
Double Inlet

Supervane Fan—Design 1

Double Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
A	13½	13¾	9¾	15¾	10¼	9⅝	13⅞	8½	14	15⅞	15⅞	18⅝	22¼	17⅜	4	8	26	23	22¼	31⅝	11¼	1¼	½
B	16½	15¾	11½	19⅛	12⅝	12	16⅞	10½	16⅝	18½	19	22⅞	26½	21	5	10	32	27¼	27¼	37⅝	17⅜	1⅜	½
C	19½	18¾	13¾	23	15	13⅞	20	12⅝	19	21⅝	22½	27⅛	31¾	24⅝	6	12	38	32½	32⅜	43⅝	20⅞	1½	½
D	22½	21½	15½	26⅞	17¼	16⅞	22¾	14⅝	21½	24	26	31⅛	35¾	27	6	14	43⅞	37	37⅛	48½	24⅛	1 11/16	⅝
E	25½	24	17¼	30¼	19⅝	18¼	25¾	16¼	24¼	27⅝	29½	35⅝	40	30⅝	7	16	49⅞	41¼	42	51⅞	27⅜	1 15/16	⅝
F	28½	26½	19	33⅞	22	20¼	28½	18¼	26¼	29½	33	39⅞	44	33½	8	18	55⅞	45½	46¾	59¾	30⅝	1 15/16	¾
G	32⅝	30	21¼	38⅝	25⅛	22¾	32½	20⅝	29¾	33¼	37⅜	45	49½	37⅝	9	20	63¾	51¼	53¼	67½	35	2 3/16	¾
H	36⅜	34½	24½	43⅜	28¼	25⅞	36¼	23⅜	33⅛	37⅛	42¼	50¾	57¼	42⅛	10	22	71⅜	59	59⅝	75¼	39¼	2 7/16	¾
J	40⅜	38½	27	48¼	31⅜	27⅞	40	25⅜	36⅜	41¼	46⅞	56¼	62¾	47¼	12	24	79⅝	65½	65⅞	83⅞	43½	2 11/16	⅞
K	46⅜	43½	30½	55½	36	32¼	45¾	29⅞	41¼	46¼	54	64½	71	52⅝	13	28	91½	74	75½	94	50⅛	2 15/16	⅞
L	52⅜	49½	35	62⅝	40⅝	36⅛	51¾	33⅝	46⅝	52⅛	61	72¾	81¼	59⅛	14	32	103¼	84½	85⅜	105¾	56⅝	3 7/16	⅞
M	58⅜	54½	38½	69⅞	45⅜	40	57¾	37½	52¼	58¼	68	81	89½	65¾	15	36	115⅛	93	95¼	118	63⅛	3 15/16	⅞
N	64⅝	60	46¾	77⅛	50	43⅞	64	41⅜	56⅝	62½	75	89½	99	70	15	40	127⅛	106¾	105⅜	126⅝	69⅝	3 15/16	⅞
P	70¼	65	50¼	84¾	51⅝	48⅞	69½	45¼	61¾	68⅛	82	97⅞	107¼	76⅛	16	42	138⅞	115¼	114¾	137⅞	76	4½	⅞
Q	76¾	72	55⅛	91½	59¼	52⅝	75¼	49⅛	67½	73⅞	89	106⅛	117½	81⅜	16	46	150⅞	127⅛	124⅜	149¼	82⅝	5	⅞
R	81⅞	78	60½	101⅛	65⅝	57⅞	82¾	54⅛	73	79¾	98⅜	117⅛	128½	87¼	16	48	166¾	138¼	137	160¼	91¼	5	1

Double Inlet

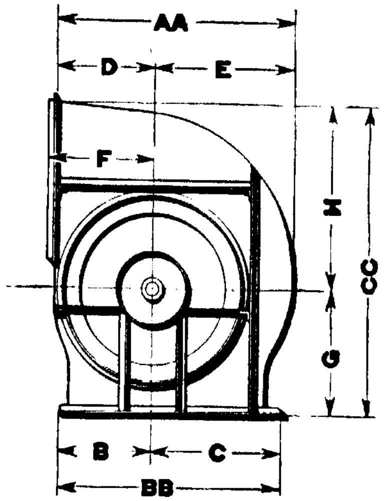
Supervane Fan—Design 1

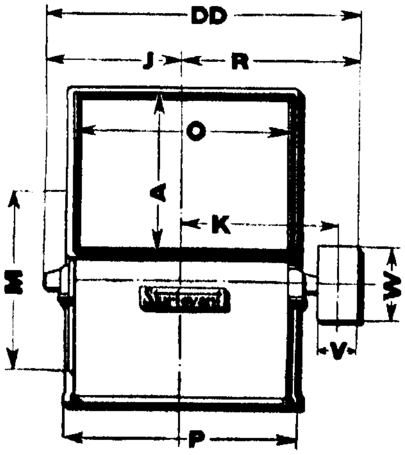
Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley





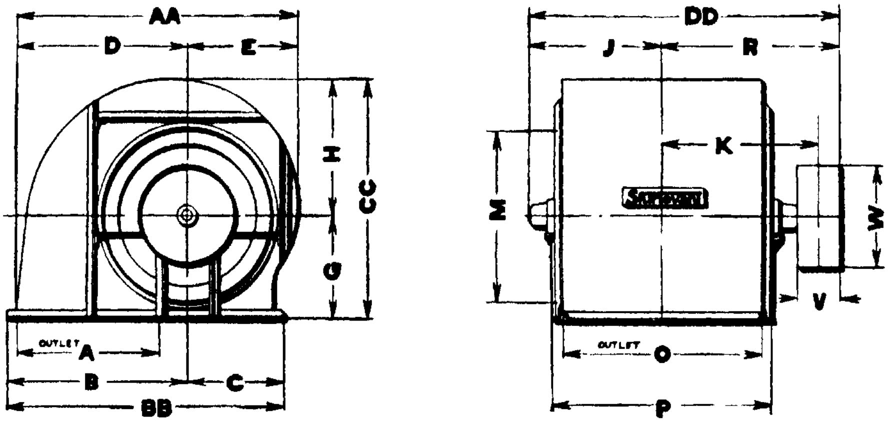
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Diameter	Anchor Bolts
A	13½	8½	11¼	8½	12¼	9¾	11¾	15¾	14	15⅜	15⅝	18⅛	22¼	17⅝	4	8	20¾	19¾	27½	31⅝	14¼	1¼	½
B	16½	10	13½	10½	15⅛	12	14¼	19⅜	16⅝	18½	19	22⅞	26½	21	5	10	25⅝	23½	33⅝	37⅝	17⅝	1⅜	½
C	19½	12	15⅞	12⅜	17⅞	13⅞	17	23	19	21⅝	22½	27⅛	31¼	24⅝	6	12	30¼	27⅞	40	43⅝	20⅞	1½	½
D	22½	13½	18	14⅜	20⅝	16⅜	19¼	26⅝	21½	24	26	31⅛	35¾	27	6	14	35	31½	45⅞	48½	24⅛	1¹¹⁄₁₆	⅝
E	25½	15	20⅛	16¼	23½	18¼	21¾	30¼	24¼	27¼	29½	35⅝	40	30⅝	7	16	39⅝	35⅛	52	54¼	27⅜	1¹³⁄₁₆	⅝
F	28½	16½	22⅜	18¼	26¼	20¼	22¼	33⅞	26¼	29½	33	39⅛	44	33½	8	18	44½	38⅞	56⅛	59¾	30⅝	1¹⁵⁄₁₆	¾
G	32⅝	18	24⅝	20¾	30	22⅜	27⅛	38⅝	29¾	33¼	37⅝	45	49½	37⅝	9	20	50⅝	42⅜	66⅛	67½	35	2³⁄₁₆	¾
H	36⅜	21	28	23⅜	33¾	25⅜	30¾	43⅜	33⅛	37⅛	42¼	50⅜	57¼	42⅛	10	22	57⅛	49	74⅛	75¼	39⅜	2⁷⁄₁₆	¾
J	40⅜	23	30⅜	25⅞	37½	27⅞	34	48½	36⅝	41¼	46⅞	56¼	62¾	47¼	12	24	63⅝	53⅜	82¼	83⅞	43½	2¹¹⁄₁₆	⅞
K	46⅝	25½	34⅜	29¼	43⅛	32¼	38¾	55½	41¼	46¼	54	64½	71	52¾	13	28	72⅞	59⅞	94¼	94	50⅛	2¹⁵⁄₁₆	⅞
L	52⅝	29½	38⅞	33⅜	48⅝	36⅛	43¾	62⅜	46⅝	52⅛	61	72¾	81¼	59⅛	14	32	82¼	68⅜	106⅜	105⅜	56⅜	3⁷⁄₁₆	⅞
M	58⅝	32½	42⅞	37½	54¼	40	48¾	69⅞	52¼	58⅛	68	81	89½	65¾	15	36	91¾	75⅜	118⅝	118	63⅛	3¹¹⁄₁₆	⅞
N	64⅜	46⅜	46¾	41⅜	59⅞	43⅞	54	77⅛	56⅝	62½	75	89⅛	99	70	15	40	101¼	93⅛	131⅛	126⅜	69⅜	3¹⁵⁄₁₆	⅞
P	70¾	50¼	50¼	45¼	65½	48¼	58¾	84¼	61¾	68⅛	82	97⅞	107¼	76⅛	16	42	110¾	100½	143	137⅞	76	4½	⅞
Q	76¾	55⅛	55⅛	49⅛	71⅛	52⅝	63½	91½	67½	73¾	89	106⅛	117½	81¾	16	46	120¼	110¼	155	149¼	82⅜	5	⅞
R	84¾	60¼	60¼	54¼	78⅜	57¾	69¾	101¼	73	79¼	98⅝	117⅛	128½	87¼	16	48	132⅞	120½	170⅛	160¼	91¼	5	1

Double Inlet

Supervane Fan—Design 1

Double Width

Full Housing **Down Blast Discharge** **Overhung Pulley**



Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
A	13	17¾	9½	15¾	10¼	10	12¼	14	15⅝	15⅜	18	22¼	17⅜	4	8	26	27¼	22¼	31⅜	14¼	1¼	½
B	16	21⅜	11½	19⅝	12⅜	12¼	15⅛	16⅝	18½	19	22¼	26⅝	21	5	10	32	32⅞	27⅜	37⅝	17⅝	1⅜	½
C	19	25½	13⅝	23	15	14¾	17⅞	19	21⅝	22¼	26⅝	31⅞	24⅜	6	12	38	39⅛	32⅝	43⅜	20⅞	1½	½
D	22	29¼	15⅜	26⅝	17¼	16¼	20⅞	21½	24	26	30⅝	35¾	27	6	14	43⅞	44⅝	37⅛	48½	24⅛	1 11/16	⅝
E	25	32⅞	17⅛	30¼	19⅝	18⅝	23⅜	24½	27⅛	29½	34¾	40	30⅜	7	16	49⅞	50	42	54⅞	27¾	1 15/16	⅝
F	28	36⅜	19	33⅞	22	20½	26¼	26¼	29½	33	38¾	44	33½	8	18	55⅞	55⅜	46¾	59¾	30⅝	1 15/16	¾
G	32	41⅛	21½	38⅜	25⅜	23¼	30	29¾	33¼	37⅝	44¼	49½	37¾	9	20	63¾	62⅝	53¼	67½	35	2 3/16	¾
H	36	46⅞	24½	43⅜	28¼	26	33¾	33⅛	37⅛	42¼	50	57½	42⅛	10	22	71⅝	71⅜	59¾	75¼	39¼	2 7/16	¾
J	40	51⅜	27	48¼	31⅜	28½	37½	36⅝	41¼	46⅝	55½	62⅜	47⅛	12	24	79⅝	78⅜	66	83¾	43½	2 11/16	⅞
K	46	59	30½	55½	36	32⅜	43½	41¼	46¼	54	63¾	71	52¾	13	28	91½	89½	75⅞	94	50⅛	2 15/16	⅞
L	52	67⅛	35	62⅝	40⅝	36⅞	48½	46⅜	52⅛	61	72	81¼	59⅜	14	32	103¼	102⅛	85⅜	105¾	56⅜	3 7/16	⅞
M	58	74⅜	38½	69⅞	45⅜	41	54¼	52¼	58¼	68	80¾	89½	65¾	15	36	115¼	112⅞	95¼	118	63⅛	3 15/16	⅞
N	64	82⅛	46¾	77⅛	50	45½	59⅞	56⅝	62½	75	88¾	99	70	15	40	127⅛	128⅞	105⅜	126⅝	69⅝	3 15/16	⅞
P	70	89¼	50¼	84¼	54⅝	49¼	65½	61⅜	68⅛	82	97	107½	76½	16	42	138⅞	139½	114¾	137⅞	76	4½	⅞
Q	76	97½	55⅜	91½	59⅜	53¼	71⅛	67½	73⅞	89	105¼	117½	81¾	16	46	150⅞	152⅞	124⅜	149¼	82⅝	5	⅞
R	84	107⅛	60¼	101⅛	65⅝	58¼	78⅝	73	79½	98⅜	116¼	128½	87¼	16	48	166¾	167⅜	136⅞	160¼	91½	5	1

Double Inlet

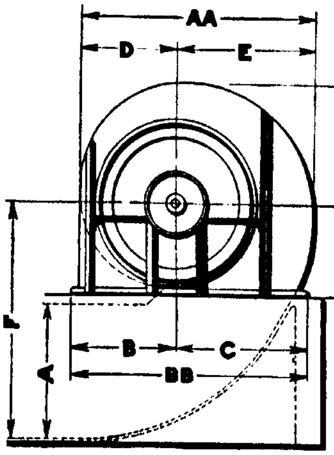
Supervane Fan—Design 1

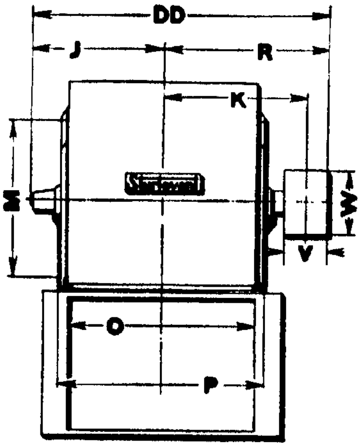
Double Width

7/8 Housing

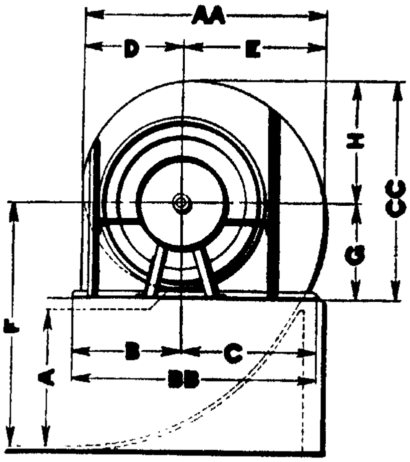
Bottom Horizontal Discharge

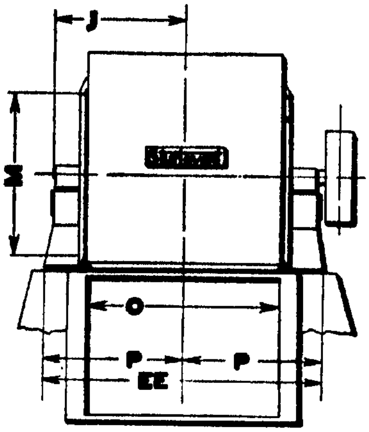
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40	31⅛	38¾	27⅝	40⅛	72	28	33⅜	36⅜	41¼	46⅞	55½	62¾	47½	12	24	67¾	69⅞	61⅜	83⅞	43½	2 11/16	⅞
K	46	35¼	43¾	31¼	46¾	82	32	38¼	41½	46¾	54	63⅝	71	52½	13	28	78	79	70¼	94	50⅛	2 15/16	⅞
L	52	40⅜	50¼	35⅞	52⅛	92	36	43⅛	46⅜	52⅛	61	72	81½	59⅛	14	32	88	90⅝	79⅛	105½	56⅝	3 7/16	⅞
M	58	44½	55½	40	58⅜	102	40	48¼	52¾	58½	68	80¾	89½	65¼	15	36	98⅜	100	88¼	118	63⅛	3 15/16	⅞
N	64	49⅛	61½	44⅜	64⅛	112½	41½	53⅛	56⅝	62½	75	88⅝	99	70	15	40	108½	110⅝	97⅝	126⅝	69⅝	3 15/16	⅞
P	70	53¾	66¼	48¼	70⅜	122	48	58⅛	61¾	68⅛	82	97	107¼	76⅛	16	42	118⅝	120	106⅛	137⅞	76	4½	⅞
Q	76	58⅜	73½	52⅜	76¼	131½	51½	63¼	67½	73¾	89	105¾	117½	81¾	16	46	128⅝	131⅞	114¾	149¼	82⅝	5	⅞
R	84	63⅞	80	57⅞	81¼	141½	56½	69¾	73	79¼	98⅝	116¼	128½	87½	16	48	142⅛	143⅞	126¼	160½	91¼	5	1





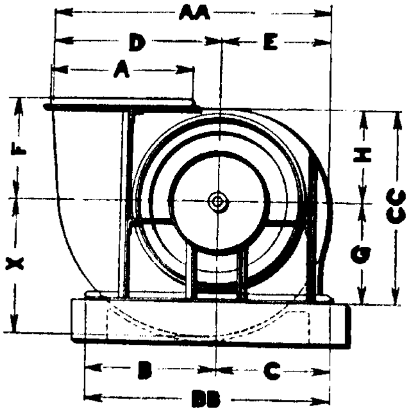
Size	A	B	C	D	E	F	G	H	J	M	O	P	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																			Fan	Pedestal
S	92	69⅛	87¼	63⅜	92⅛	157	61	76⅜	87½	107¾	127½	89⅜	155½	156⅜	137⅜	178¾	99⅞	6	1	1¼
T	100	74⅞	94½	68⅞	100¼	170	66	83	93	117⅛	138½	95⅞	169⅛	169⅜	149⅜	191¾	108½	6	1	1¼
U	108	80⅜	101½	74⅜	108⅛	182½	70½	89½	98½	126⅜	149½	101⅞	182½	181⅞	160	203¾	117¼	6	1	1¼
V	116	85⅞	109½	79⅞	116⅛	195	75	96⅛	110¼	135⅝	160½	114⅜	196	195⅜	171⅛	228¾	125¾	8	1	1¼
W	128	94⅛	120½	88⅛	128¼	214	82	106⅛	118⅝	149⅝	177¼	123¾	216⅜	214⅝	188⅛	247½	138¾	8	1	1¼
X	140	102⅜	130	96⅜	140⅛	234	90	116⅛	126⅞	163¾	193¾	133	236½	232⅜	206⅛	266	151¾	8	1⅛	1¼
Y	152	110½	141	104½	152⅛	253	97	126	135¼	177¾	210½	142⅜	256⅝	251½	223	284¾	164⅝	8	1⅛	1¼

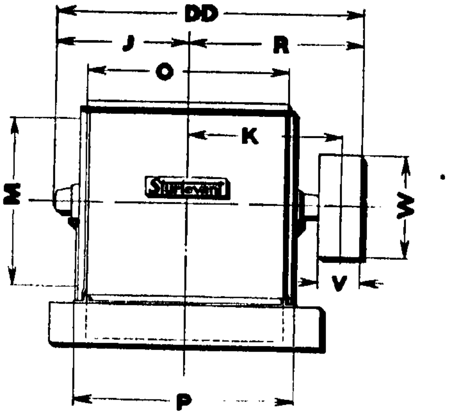
Double Inlet

Supervane Fan—Design 1

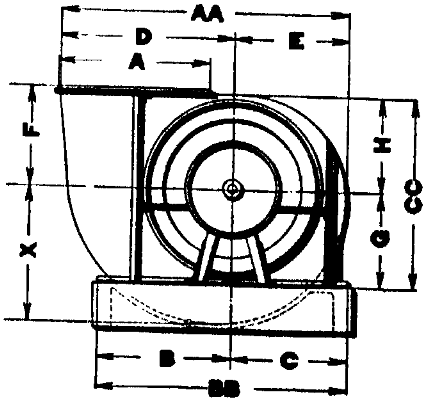
Double Width

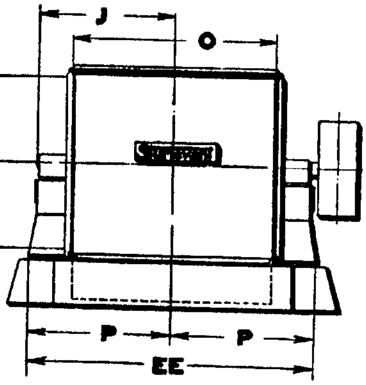
⅞ Housing **Up Blast Discharge** **Overhung Pulley**





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40⅜	37	27	48¼	31⅜	27⅞	28	25⅞	36⅝	41¼	46⅞	56¼	62¼	47¼	12	24	37½	79⅝	64	53⅞	83⅞	43½	2 11/16	⅞
K	46⅜	41¾	30½	55½	36	32¼	32	29¼	41¼	46¼	54	64½	71	52¾	13	28	43⅛	91½	72¼	61¼	94	50⅛	2 15/16	⅞
L	52⅜	48¼	35	62⅝	40⅝	36⅛	36	33⅝	46⅝	52⅛	61	72¾	81¼	59⅛	14	32	48⅝	103¼	83¼	69⅝	105¾	56⅝	3 7/16	⅞
M	58⅝	53	38½	69⅞	45⅜	40	40	37½	52¼	58¼	68	81	89½	65¾	15	36	54¼	115¼	91½	77½	118	63⅛	3 15/16	⅞
N	64⅝	59	46¼	77⅛	50	43⅞	44½	41⅜	56⅝	62½	75	89½	99	70	15	40	59⅞	127⅛	105¼	85⅞	126⅝	69⅝	3 15/16	⅞
P	70¾	64	50¼	84¾	54⅛	48¾	48	45¼	61¾	68⅛	82	97⅞	107¼	76⅛	16	42	65½	138⅞	114¼	93¼	137⅞	76	4½	⅞
Q	76¾	70½	55⅛	91½	59⅜	52⅝	51¼	49⅛	67½	73¾	89	106⅛	117½	81¾	16	46	71⅛	150⅞	125⅝	100⅜	149¼	82⅝	5	⅞
R	81¾	77	60¼	101⅛	65⅝	57¾	56½	54¼	73	79¼	98⅜	117⅛	128½	87¼	16	48	78⅝	166¾	137¼	110¾	160¼	91¼	5	1





Size	A	B	C	D	E	F	G	H	J	M	O	P	X	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																				Fan	Pedestal
S	92⅞	81	65⅜	110¾	71⅞	63⅞	61	59⅜	87½	107¾	128½	89⅜	86	182⅝	149⅜	120⅜	178¾	99⅞	6	1	1¼
T	100⅞	91	70⅝	120⅜	78⅛	69⅛	66	64⅝	93	117⅛	139½	95⅞	93½	198½	161⅜	130⅝	191¾	108½	6	1	1¼
U	108⅞	97½	75¾	130	81¼	74¼	70½	69¾	98⅛	126⅜	150½	101⅞	100⅞	211¼	173¼	140¼	203¾	117⅛	6	1	1¼
V	116⅞	105½	80⅞	139⅝	90½	89⅞	75	74⅞	110¼	135⅝	161½	114⅜	108⅜	230⅛	186⅜	149⅞	228¾	125¾	8	1	1¼
W	128⅞	116½	88⅜	154	99⅞	87⅝	82	82⅝	118⅜	149⅝	178¼	123¾	119⅝	253⅞	205⅛	164⅝	247½	138¾	8	1	1¼
X	140⅞	125¼	96⅞	168½	109¼	95⅜	90	90⅜	126⅞	163⅞	191¾	133	130¾	277¾	221⅞	180⅜	266	151¾	8	1⅛	1¼
Y	152⅞	136	101	182⅞	118⅝	103	97	98	135¼	177¾	211½	140⅞	142	301½	240	195	281¾	164⅝	8	1⅛	1¼

Double Inlet

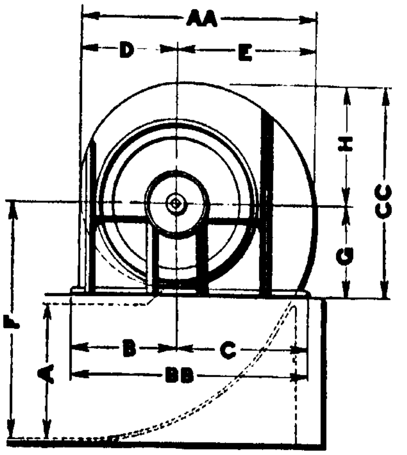
Supervane Fan—Design 1

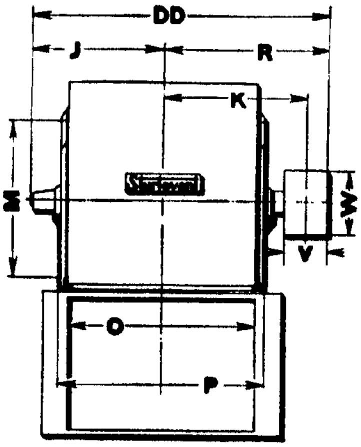
Double Width

7/8 Housing

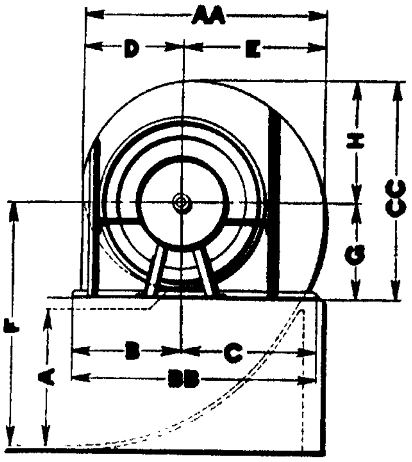
Bottom Horizontal Discharge

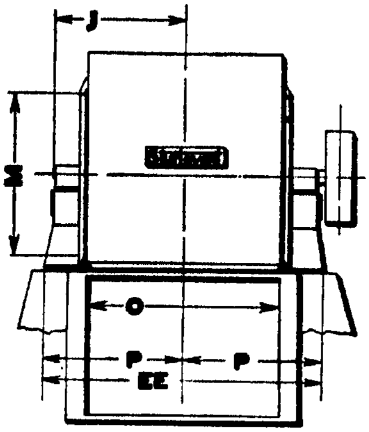
Overhung Pulley





Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
J	40	31 1/8	38 3/4	27 5/8	40 1/8	72	28	33 3/8	36 5/8	41 1/4	46 7/8	55 1/8	62 3/4	47 1/2	12	24	67 3/4	69 1/4	61 3/8	83 7/8	43 1/2	2 11/16	7/8
K	46	35 1/2	43 3/4	31 1/4	46 1/4	82	32	38 1/4	41 1/2	46 1/2	54	63 3/8	71	52 3/4	13	28	78	79	70 1/2	94	50 1/8	2 15/16	7/8
L	52	40 3/8	50 1/4	35 7/8	52 1/8	92	36	43 1/4	46 3/8	52 1/8	61	72	81 1/4	59 1/8	14	32	88	90 5/8	79 1/8	105 3/4	56 5/8	3 7/16	7/8
M	58	44 1/2	55 1/2	40	58 1/8	102	40	48 1/4	52 1/4	58 1/4	68	80 1/4	89 1/2	65 1/4	15	36	98 1/4	100	88 1/4	118	63 1/8	3 11/16	7/8
N	64	49 1/8	61 1/2	44 1/8	64 1/8	112 1/2	41 1/2	53 1/8	56 5/8	62 1/2	75	88 7/8	99	70	15	40	108 1/4	110 3/8	97 5/8	126 3/8	69 3/8	3 15/16	7/8
P	70	53 1/4	66 1/4	48 1/4	70 1/8	122	48	58 5/8	61 3/4	68 1/8	82	97	107 1/4	76 1/8	16	42	118 5/8	120	106 1/8	137 7/8	76	4 1/2	7/8
Q	76	58 3/8	73 1/2	52 3/8	76 1/4	131 1/2	51 1/2	63 1/8	67 1/2	73 3/4	89	105 1/4	117 1/2	81 3/4	16	46	128 5/8	131 1/8	114 5/8	149 1/4	82 5/8	5	7/8
R	84	63 7/8	80	57 7/8	81 1/4	141 1/2	56 1/2	69 3/4	73	79 1/4	98 3/8	116 1/4	128 1/2	87 1/2	16	48	142 1/4	143 1/4	126 1/4	160 1/4	91 1/4	5	1





Size	A	B	C	D	E	F	G	H	J	M	O	P	AA	BB	CC	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																			Fan	Pedestal
S	92	69 1/8	87 1/4	63 3/8	92 1/8	157	61	76 3/8	87 1/2	107 3/4	127 1/2	89 3/8	155 1/2	156 3/8	137 3/8	178 3/4	99 7/8	6	1	1 1/4
T	100	74 7/8	94 1/2	68 7/8	100 1/4	170	66	83	93	117 1/8	138 1/2	95 7/8	169 1/8	169 3/8	149 3/8	191 3/4	108 1/2	6	1	1 1/4
U	108	80 3/8	101 1/2	74 3/8	108 1/8	182 1/2	70 1/2	89 1/2	98 1/2	126 3/8	149 1/2	101 7/8	182 1/2	181 7/8	160	203 3/4	117 1/8	6	1	1 1/4
V	116	85 7/8	109 1/2	79 7/8	116 1/8	195	75	96 1/8	110 1/4	135 3/8	160 1/2	114 3/8	196	195 3/8	171 1/8	228 3/4	125 3/4	8	1	1 1/4
W	128	94 1/8	120 1/2	88 1/8	128 1/4	214	82	106 1/8	118 5/8	149 5/8	177 1/4	123 3/4	216 3/8	214 3/8	188 1/8	247 1/8	138 3/4	8	1	1 1/4
X	140	102 3/8	130	96 3/8	140 1/8	234	90	116 1/8	126 7/8	163 3/4	193 3/4	133	236 1/2	232 3/8	206 1/8	266	151 3/4	8	1 1/8	1 1/4
Y	152	110 1/2	141	104 1/2	152 1/8	253	97	126	135 1/4	177 3/4	210 1/2	142 3/8	256 5/8	251 1/2	223	284 3/4	164 5/8	8	1 1/8	1 1/4

Single Inlet

Size "A" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
96	1010	.176	473	0.016												
52	1200	.249	907	0.045												
11	1400	.338	1,170	0.081												
69	1600	.441	1,380	0.130	1,130	0.097										
28	1800	.559	1,610	0.190	1,430	0.160	1,010	0.110								
86	2000	.690	1,800	0.260	1,680	0.240	1,450	0.195								
45	2200	.835	2,020	0.355	1,910	0.335	1,750	0.295	1,470	0.235						
04	2400	.904			2,130	0.445	2,000	0.41	1,820	0.360	1,470	0.285				
63	2600	1.17			2,300	0.57	2,240	0.54	2,100	0.495	1,900	0.435	1,580	0.36		
21	2800	1.35			2,540	0.72	2,440	0.69	2,340	0.65	2,200	0.60	2,000	0.53	1,680	0.445
80	3000	1.55			2,750	0.9	2,670	0.87	2,580	0.83	2,460	0.78	2,320	0.72	2,120	0.64
39	3200	1.77			2,940	1.1	2,880	1.05	2,800	1.05	2,700	0.99	2,590	0.93	2,440	0.86
98	3400	2.00					3,080	1.30	3,010	1.25	2,930	1.20	2,830	1.15	2,730	1.10
58	3600	2.24					3,200	1.55	3,220	1.50	3,150	1.45	3,070	1.45	2,980	1.35
14	3800	2.49					3,480	1.8	3,430	1.80	3,360	1.75	3,200	1.70	3,210	1.65
73	4000	2.76							3,630	2.10	3,570	2.05	3,510	2.05	3,440	2.00
31	4200	3.04							3,840	2.45	3,790	2.40	3,730	2.40	3,670	2.35
90	4400	3.31							4,040	2.85	3,990	2.80	3,940	2.75	3,880	2.70
50	4600	3.65									4,190	3.20	4,150	3.15	4,090	3.15
09	4800	3.98									4,390	3.65	4,350	3.60	4,310	3.6
69	5000	4.31									4,590	4.15	4,560	4.15	4,510	4.1
40	5250	4.76											4,800	4.8	4,760	4.8
14	5500	5.22											5,050	5.5	5,010	5.5
89	5750	5.71													5,260	6.3

P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
80	3000	1.55	1,820	0.55												
39	3200	1.77	2,260	0.77	1,520	0.53										
98	3400	2.00	2,580	1.05	2,150	0.83										
58	3600	2.24	2,870	1.30	2,550	1.10	2,020	0.88								
14	3800	2.49	3,120	1.60	2,880	1.45	2,530	1.20	1,860	0.91						
73	4000	2.76	3,360	1.90	3,170	1.75	2,920	1.55	2,480	1.35						
31	4200	3.04	3,590	2.25	3,430	2.15	3,240	1.95	2,910	1.70	2,450	1.45				
90	4400	3.34	3,830	2.65	3,680	2.55	3,500	2.35	3,260	2.15	2,940	1.90				
50	4600	3.65	4,050	3.10	3,910	2.95	3,760	2.80	3,580	2.6	3,320	2.35	2,450	1.75		
09	4800	3.98	4,260	3.55	4,130	3.40	3,990	3.25	3,840	3.1	3,640	2.85	3,010	2.30		
69	5000	4.31	4,470	4.05	4,360	3.95	4,240	3.80	4,100	3.6	3,930	3.40	3,450	2.90	2,540	2.15
40	5250	4.76	4,720	4.7	4,630	4.7	4,520	4.45	4,410	4.3	4,260	4.15	3,890	3.65	3,280	3.05
14	5500	5.22	4,980	5.5	4,890	5.4	4,800	5.3	4,600	5.1	4,570	4.9	4,240	4.45	3,820	3.85
89	5750	5.71	5,230	6.3	5,160	6.2	5,080	6.1	4,970	5.9	4,860	5.7	4,610	5.3	4,250	4.75
61	6000	6.21	5,480	7.1	5,410	7.1	5,340	7.0	5,260	6.8	5,150	6.7	4,920	6.3	4,640	5.8
34	6250	6.74	5,740	8.1	5,670	8.0	5,560	7.9	5,530	7.8	5,430	7.6	5,230	7.3	4,980	6.8
08	6500	7.20			5,920	9.1	5,860	8.9	5,790	8.9	5,700	8.7	5,510	8.3	5,300	7.9
80	6750	7.86			6,170	10.0	6,110	10.0	6,040	10.0	5,960	9.9	5,800	9.5	5,600	9.1
55	7000	8.45			6,420	11.5	6,360	11.5	6,310	11.0	6,240	11.0	6,080	10.5	5,900	10.5
00	7500	9.71					6,860	14	6,810	14.0	6,750	13.5	6,640	13.5	6,490	13.0
45	8000	11.04							7,320	17.0	7,260	17.0	7,160	16.5	7,040	16.5
95	8500	12.48							7,820	20.5	7,770	20.5	7,670	20	7,550	20.0
40	9000	14.00									8,260	24	8,180	24	8,000	23.5
88	9500	15.58											8,690	28	8,590	28
40	10000	17.27											9,180	33	9,110	33

P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
14	5500	5.22	3,090	3.15												
80	5750	5.71	3,740	4.15	2,860	3.2										
61	6000	6.21	4,230	5.1	3,640	4.4										
34	6250	6.74	4,660	6.2	4,210	5.5										
08	6500	7.20	5,040	7.4	4,680	6.6	3,440	4.9								
80	6750	7.86	5,380	8.5	5,090	7.9	4,160	6.4								
55	7000	8.45	5,700	9.8	5,460	9.2	4,730	7.7	3,280	5.5						
00	7500	9.71	6,300	12.5	6,120	12.0	5,610	11	4,810	8.8						
45	8000	11.04	6,890	16.0	6,720	15.5	6,330	14	5,790	12.5	4,960	10.5				
95	8500	12.48	7,440	19.5	7,300	19	6,970	18	6,560	16.5	6,000	14.5	5,180	12.5		
40	9000	14.00	7,960	23.5	7,870	23	7,580	22	7,230	20.5	6,840	19.0	6,250	17	5,470	15
88	9500	15.58	8,500	28	8,410	27	8,160	27	7,860	25	7,550	23.5	7,120	22	6,570	20
40	10000	17.27	9,020	33	8,950	32	8,720	32	8,470	30	8,190	29	7,860	27	7,430	25

Single Inlet

Size "B" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
241	1010	.176	718	0.025												
287	1200	.249	1,380	0.068												
335	1400	.338	1,770	0.125												
382	1600	.441	2,090	0.195	1,710	0.145										
430	1800	.559	2,440	0.285	2,170	0.245	1,530	0.165								
477	2000	.690	2,730	0.395	2,550	0.36	2,190	0.205								
525	2200	.835	3,070	0.54	2,890	0.51	2,650	0.445	2,230	0.355						
573	2400	.994			3,230	0.67	3,030	0.62	2,760	0.54	2,230	0.43				
621	2600	1.17			3,570	0.86	3,390	0.82	3,180	0.75	2,880	0.66	2,390	0.54		
668	2800	1.35			3,850	1.10	3,690	1.05	3,550	0.99	3,340	0.91	3,040	0.80	2,550	0.67
717	3000	1.55			4,160	1.35	4,040	1.30	3,900	1.25	3,730	1.20	3,510	1.10	3,210	0.97
764	3200	1.77			4,460	1.65	4,360	1.60	4,240	1.55	4,100	1.50	3,920	1.40	3,700	1.30
811	3400	2.00					4,670	1.95	4,570	1.9	4,450	1.85	4,290	1.75	4,130	1.70
860	3600	2.24					4,990	2.35	4,880	2.3	4,780	2.25	4,650	2.15	4,510	2.05
909	3800	2.49					5,280	2.75	5,200	2.7	5,100	2.70	4,900	2.6	4,860	2.50
955	4000	2.76							5,500	3.2	5,420	3.15	5,320	3.1	5,210	3.00
1002	4200	3.04							5,810	3.7	5,740	3.65	5,650	3.6	5,550	3.55
1051	4400	3.34							6,120	4.3	6,050	4.25	5,970	4.2	5,880	4.10
1099	4600	3.65									6,350	4.9	6,280	4.8	6,200	4.75
1148	4800	3.98									6,650	5.5	6,580	5.5	6,520	5.4
1195	5000	4.31									6,960	6.3	6,900	6.3	6,830	6.2
1254	5250	4.76											7,280	7.3	7,220	7.2
1313	5500	5.22											7,650	8.4	7,600	8.3
1374	5750	5.71													7,980	9.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
717	3000	1.55	2,760	0.83												
764	3200	1.77	3,120	1.15	2,310	0.80										
811	3400	2.00	3,910	1.55	3,260	1.25										
860	3600	2.24	4,350	1.95	3,870	1.70	3,060	1.35								
909	3800	2.49	4,730	2.40	4,370	2.15	3,830	1.85	2,820	1.40						
955	4000	2.76	5,100	2.90	4,800	2.65	4,430	2.40	3,760	2.00						
1002	4200	3.04	5,440	3.45	5,200	3.20	4,910	2.95	4,410	2.60	3,720	2.20				
1051	4400	3.34	5,800	4.05	5,570	3.85	5,300	3.55	4,940	3.25	4,460	2.90				
1099	4600	3.65	6,130	4.7	5,920	4.5	5,690	4.25	5,420	3.95	5,040	3.60	3,710	2.65		
1148	4800	3.98	6,460	5.4	6,260	5.2	6,050	4.95	5,830	4.7	5,510	4.35	4,570	3.50		
1195	5000	4.31	6,770	6.2	6,600	6.0	6,410	5.7	6,200	5.5	5,900	5.2	5,230	4.35	3,850	3.25
1254	5250	4.76	7,150	7.2	7,020	7.1	6,850	6.8	6,680	6.6	6,460	6.3	5,890	5.5	4,980	4.6
1313	5500	5.22	7,550	8.3	7,410	8.1	7,280	8.0	7,100	7.7	6,930	7.4	6,440	6.7	5,790	5.9
1374	5750	5.71	7,920	9.5	7,810	9.4	7,700	9.2	7,540	9.0	7,380	8.7	7,000	8.1	6,450	7.2
1432	6000	6.21	8,310	11.0	8,200	10.5	8,100	10.5	7,960	10.5	7,810	10.0	7,470	9.5	7,040	8.8
1492	6250	6.74	8,700	12.5	8,600	12.0	8,480	12.0	8,370	12.0	8,240	11.5	7,930	11.0	7,550	10.5
1552	6500	7.29			8,970	14.0	8,880	13.5	8,760	13.5	8,660	13	8,360	12.5	8,050	12.0
1610	6750	7.86			9,350	15.5	9,250	15.5	9,160	15	9,050	15	8,800	14.5	8,500	14.0
1671	7000	8.45			9,720	17	9,650	17	9,560	17	9,470	17	9,220	16.5	8,950	15.5
1791	7500	9.71					10,400	21	10,300	21	10,300	21	10,100	20.5	9,820	20.0
1910	8000	11.04							11,100	26	11,000	26	10,900	25	10,700	24.5
2030	8500	12.48							11,900	31	11,800	31	11,600	31	11,500	30
2150	9000	14.00									12,500	37	12,400	37	12,300	36
2270	9500	15.58											13,200	43	13,000	43
2390	10000	17.27											13,900	50	13,800	50

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.06 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1313	5500	5.22	4,690	4.75												
1374	5750	5.71	5,660	6.3	4,340	4.85										
1432	6000	6.21	6,420	7.8	5,520	6.7										
1492	6250	6.74	7,000	9.4	6,400	8.3										
1552	6500	7.29	7,650	11	7,110	10.0	5,210	7.4								
1610	6750	7.86	8,160	13	7,720	12.0	6,320	9.7								
1671	7000	8.45	8,650	15	8,290	14.0	7,170	11.5	4,980	8.3						
1791	7500	9.71	9,570	19	9,290	18.5	8,520	16.5	7,310	13.5						
1910	8000	11.04	10,400	24	10,200	23	9,600	21.5	8,780	19	7,540	16				
2030	8500	12.48	11,300	29	11,100	29	10,600	27	9,950	25	9,100	22	7,850	19		
2150	9000	14.00	12,100	35	11,900	35	11,500	33	11,000	31	10,400	29	9,500	26	8,300	22.5
2270	9500	15.58	12,900	42	12,700	42	12,400	40	11,900	38	11,500	36	10,800	33	9,900	30
2390	10000	17.27	13,700	50	13,600	49	13,200	48	12,900	46	12,400	44	11,900	41	11,300	38

Single Inlet

Size "C" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
203	1010	176	1,010	0.035												
241	1200	219	1,940	0.096												
281	1400	338	2,500	0.175												
322	1600	441	2,950	0.275	2,410	0.205										
362	1800	559	3,440	0.405	3,070	0.345	2,160	0.235								
402	2000	690	3,860	0.56	3,600	0.51	3,100	0.415								
442	2200	835	4,330	0.76	4,080	0.71	3,740	0.63	3,150	0.50						
482	2400	991			4,550	0.95	4,270	0.88	3,890	0.77	3,150	0.61				
522	2600	1.17			5,040	1.20	4,780	1.15	4,490	1.05	4,070	0.93	3,380	0.77		
563	2800	1.35			5,440	1.55	5,210	1.45	5,020	1.40	4,710	1.30	4,290	1.15	3,600	0.95
604	3000	1.55			5,880	1.9	5,700	1.85	5,510	1.80	5,260	1.65	4,950	1.55	4,530	1.35
644	3200	1.77			6,300	2.3	6,150	2.30	5,980	2.20	5,780	2.10	5,510	2.00	5,220	1.85
684	3400	2.00					6,570	2.75	6,450	2.70	6,270	2.60	6,060	2.50	5,840	2.35
724	3600	2.24					7,050	3.3	6,880	3.25	6,750	3.15	6,560	3.05	6,360	2.90
764	3800	2.49					7,450	3.9	7,330	3.85	7,200	3.80	7,050	3.65	6,860	3.55
804	4000	2.76							7,770	4.55	7,650	4.45	7,510	4.35	7,370	4.25
845	4200	3.04							8,200	5.2	8,100	5.2	7,980	5.1	7,850	5.0
885	4400	3.34							8,650	6.1	8,540	6.0	8,440	5.9	8,300	5.8
925	4600	3.65									8,970	6.9	8,870	6.8	8,760	6.7
965	4800	3.98									9,400	7.8	9,300	7.8	9,210	7.7
1005	5000	4.31									9,820	8.9	9,750	8.8	9,650	8.7
1055	5250	4.76											10,300	10.5	10,200	10.0
1106	5500	5.22											10,800	12	10,700	11.5
1155	5750	5.71													11,300	13.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
604	3000	1.55	3,890	1.15												
644	3200	1.77	4,830	1.65	3,260	1.15										
684	3400	2.00	5,530	2.20	4,610	1.80										
724	3600	2.24	6,140	2.75	5,460	2.35	4,320	1.90								
764	3800	2.49	6,680	3.40	6,170	3.05	5,400	2.60	3,970	1.95						
804	4000	2.76	7,200	4.10	6,780	3.75	6,250	3.35	5,300	2.85						
845	4200	3.04	7,690	4.85	7,340	4.55	6,940	4.2	6,220	3.65	5,250	3.10				
885	4400	3.34	8,200	5.7	7,860	5.4	7,500	5.0	6,960	4.6	6,300	4.05				
925	4600	3.65	8,660	6.6	8,360	6.3	8,040	6.0	7,650	5.6	7,100	5.0	5,240	3.75		
965	4800	3.98	9,130	7.6	8,850	7.3	8,540	7.0	8,210	6.6	7,780	6.1	6,450	4.95		
1005	5000	4.31	9,560	8.7	9,340	8.4	9,050	8.1	8,760	7.7	8,400	7.3	7,370	6.2	5,440	4.6
1055	5250	4.76	10,100	10.0	9,910	10.0	9,650	9.6	9,420	9.2	9,120	8.8	8,310	7.8	7,020	6.5
1106	5500	5.22	10,600	11.5	10,500	11.5	10,300	11.5	10,000	11.0	9,760	10.5	9,070	9.5	8,160	8.3
1155	5750	5.71	11,200	13.5	11,000	13.0	10,900	13.0	10,600	12.5	10,400	12.5	9,870	11.5	9,100	10.0
1205	6000	6.21	11,700	15.0	11,600	15.0	11,400	15.0	11,200	14.5	11,000	14.5	10,500	13.5	9,920	12.5
1258	6250	6.74	12,300	17.5	12,100	17.0	12,000	17.0	11,800	16.5	11,600	16.5	11,200	15.5	10,700	14.5
1307	6500	7.29			12,700	19.5	12,500	19.0	12,400	19.0	12,200	18.5	11,800	18.0	11,300	17.0
1358	6750	7.86			13,200	22.0	13,100	21.5	12,900	21.5	12,800	21.0	12,400	20.5	12,000	19.5
1408	7000	8.45			13,700	24.5	13,600	24	13,500	24	13,400	23.5	13,000	23	12,600	22
1509	7500	9.71					14,700	30	14,600	30	14,500	29	14,200	29	13,900	28
1609	8000	11.04							15,700	38	15,500	36	15,300	36	15,000	35
1710	8500	12.48							16,700	44	16,600	43	16,400	43	16,200	42
1810	9000	14.00									17,600	52	17,500	52	17,300	50
1910	9500	15.58											18,600	60	18,400	60
2010	10000	17.27											19,600	72	19,500	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. pe q. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
1106	5500	5.22	6,600	6.7												
1155	5750	5.71	8,000	8.8	6,110	6.0										
1205	6000	6.21	9,050	11.0	7,790	9.4										
1258	6250	6.74	9,980	13.0	9,020	12										
1307	6500	7.29	10,800	15.5	10,000	14	7,350	10.5								
1358	6750	7.86	11,500	18.5	10,900	17	8,910	13.5								
1408	7000	8.45	12,200	21	11,700	20	10,100	16.5	7,020	11.5						
1509	7500	9.71	13,500	27	13,100	26	12,000	23	10,300	19						
1609	8000	11.04	14,700	34	14,100	33	13,500	30	12,400	27	10,600	23				
1710	8500	12.48	15,900	41	15,600	41	14,900	38	14,000	35	12,800	31	11,100	27		
1810	9000	14.00	17,000	50	16,800	49	16,200	47	15,500	44	14,600	41	13,400	36	11,700	32
1910	9500	15.58	18,200	60	18,000	58	17,500	56	16,800	54	16,200	50	15,200	47	14,100	42
2010	10000	17.27	19,300	70	19,100	70	18,700	68	18,100	64	17,500	62	16,800	58	15,900	54

Single Inlet **Single Width**

Size "D" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
175	1010	.176	1,360	0.047												
208	1200	.219	2,600	0.130												
242	1400	.338	3,350	0.230												
278	1600	.441	3,950	0.365	3,220	0.278										
312	1800	.559	4,610	0.54	4,100	0.465	2,890	0.315								
347	2000	.690	5,160	0.75	4,810	0.68	4,140	0.56								
382	2200	.835	5,790	1	5,460	0.95	5,010	0.84	4,200	0.67						
417	2400	.904			6,090	1.25	5,720	1.15	5,200	1.05	4,200	0.81				
451	2600	1.17			6,740	1.65	6,400	1.55	6,000	1.40	5,440	1.25	4,520	1.05		
486	2800	1.35			7,270	2.05	6,970	1.95	6,700	1.85	6,300	1.70	5,730	1.50	4,810	1.25
520	3000	1.55			7,860	2.6	7,620	2.50	7,360	2.40	7,040	2.25	6,620	2.05	6,060	1.85
555	3200	1.77			8,410	3.1	8,230	3.05	8,000	2.95	7,730	2.85	7,400	2.65	6,980	2.45
590	3400	2.00					8,800	3.7	8,620	3.60	8,400	3.50	8,100	3.35	7,810	3.15
625	3600	2.24					9,410	4.4	9,200	4.35	9,020	4.20	8,790	4.10	8,500	3.90
659	3800	2.49					9,980	5.2	9,800	5.1	9,620	5.1	9,420	4.90	9,180	4.75
695	4000	2.76							10,400	6.1	10,200	5.9	10,000	5.80	9,850	5.7
730	4200	3.04							11,000	7.0	10,800	6.9	10,700	6.80	10,500	6.7
764	4100	3.34							11,600	8.1	11,400	8.0	11,300	7.90	11,100	7.8
799	4600	3.65									12,000	9.2	11,900	9.10	11,700	9.0
833	4800	3.98									12,600	10.5	12,400	10.5	12,300	10.5
868	5000	4.31									13,100	12	13,000	12	12,900	11.5
911	5250	4.76											13,700	14	13,600	13.5
955	5500	5.22											14,500	16	14,300	15.5
998	5750	5.71													15,100	18

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
520	3000	1.55	5,210	1.55												
555	3200	1.77	6,460	2.20	4,350	1.50										
590	3400	2.00	7,400	2.95	6,160	2.40										
625	3600	2.24	8,200	3.70	7,300	3.15	5,780	2.5								
659	3800	2.49	8,930	4.55	8,250	4.10	7,230	3.5	5,310	2.6						
695	4000	2.76	9,610	5.5	9,060	5.10	8,370	4.5	7,100	3.8						
730	4200	3.04	10,300	6.5	9,810	6.10	9,280	5.6	8,330	4.9	7,020	4.15				
764	4400	3.31	11,000	7.6	10,500	7.3	10,000	6.7	9,340	6.1	8,420	5.4				
799	4600	3.65	11,600	8.9	11,200	8.5	10,700	8.0	10,200	7.5	9,510	6.8	7,010	5.0		
833	4800	3.98	12,200	10.0	11,800	9.8	11,400	9.3	11,000	8.8	10,400	8.2	8,640	6.7		
868	5000	4.31	12,900	11.5	12,500	11.5	12,100	11.0	11,700	10.5	11,300	9.7	9,860	8.2	7,270	6.1
911	5250	4.76	13,500	13.5	13,300	13.5	12,900	13.0	12,600	12.5	12,200	12.0	11,100	10.5	9,400	8.7
955	5500	5.22	14,200	15.5	14,000	15.5	13,700	15.0	13,400	14.5	13,100	14.0	12,200	12.5	10,900	11.0
998	5750	5.71	15,000	18.0	14,800	17.5	14,500	17.5	14,200	17.0	13,900	16.5	13,200	15.5	12,200	13.5
1041	6000	6.21	15,700	20.5	15,500	20	15,300	20.0	15,100	19.5	14,800	19	14,100	18	13,300	16.5
1086	6250	6.74	16,400	23	16,200	23	16,000	22.5	15,800	22.5	15,600	22	15,000	21	14,300	19.5
1129	6500	7.29			16,900	26	16,800	26	16,600	25	16,400	25	15,800	24	15,200	22.5
1171	6750	7.86			17,700	29	17,500	29	17,800	29	17,100	28	16,600	27	16,100	26
1215	7000	8.45			18,400	33	18,200	32	18,100	32	17,900	32	17,400	31	16,900	30
1302	7500	9.71					19,600	40	19,500	40	19,400	39	19,000	39	18,600	38
1390	8000	11.04							21,000	49	20,800	48	20,500	48	20,200	47
1475	8500	12.48							22,400	58	22,300	58	22,000	58	21,600	56
1561	9000	14.00									23,600	70	23,400	68	23,200	68
1650	9500	15.58											24,900	82	24,600	80
1735	10000	17.27											26,300	96	26,100	94

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
955	5500	5.22	8,840	9.0												
998	5750	5.71	10,700	12.0	8,190	9.2										
1041	6000	6.21	12,100	14.5	10,400	12.5										
1086	6250	6.74	13,400	18.0	12,100	15.5										
1129	6500	7.29	14,400	21.0	13,400	19.0	9,840	14								
1171	6750	7.86	15,400	24.5	14,600	22.5	11,900	18								
1215	7000	8.45	16,300	28	15,600	26	13,600	22	9,400	15.5						
1302	7500	9.71	18,100	36	17,500	35	16,100	31	13,800	25						
1390	8000	11.04	19,700	45	19,300	44	18,100	40	16,600	36	14,200	31				
1475	8500	12.48	21,300	56	21,900	54	20,000	50	18,800	47	17,200	42	14,800	36		
1561	9000	14.00	22,800	68	22,500	66	21,700	62	20,700	58	19,600	54	17,900	48	15,700	48
1650	9500	15.58	24,300	80	24,100	78	23,400	76	22,500	72	21,600	68	20,400	62	18,800	56
1735	10000	17.27	25,800	94	25,600	92	25,000	90	24,200	86	23,500	82	22,500	78	21,300	72

Single Inlet **Single Width**

Size "E" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
155	1010	176	1,750	0 061												
184	1200	249	3,360	0 165												
214	1400	338	4,340	0 300												
245	1600	441	5,110	0.475	4,170	0.36										
276	1800	.559	5,960	0 70	5,300	0.60	3,740	0.405								
306	2000	.690	6,690	0 97	6,240	0.89	5,360	0.72								
337	2200	.835	7,500	1 30	7,070	1 25	6,490	1.10	5,450	0 87						
367	2400	.994			7,890	1 65	7,400	1.50	6,750	1.35	5,450	1 05				
398	2600	1 17			8,730	2 10	8,280	2 00	7,760	1.85	7,050	1 60	5,850	1.35		
428	2800	1 35			9,410	2 65	9,030	2 55	8,690	2 40	8,150	2 20	7,410	1 95	6,230	1 65
459	3000	1 55			10,200	3 3	9,870	3.20	9,540	3.10	9,110	2 90	8,570	2 65	7,850	2 35
490	3200	1 77			10,900	4	10,700	3.95	10,400	3 80	10,000	3 65	9,590	3 45	9,050	3.2
520	3400	2 00					11,400	4 8	11,200	4 65	10,900	4.5	10,500	4 3	10,100	4.1
551	3600	2 24					12,200	5 7	11,900	5.6	11,700	5 4	11,400	5.3	11,000	5 1
581	3800	2 49					12,900	6 7	12,700	6 6	12,500	6 6	12,200	6 3	11,900	6 1
612	4000	2 76							13,500	7 9	13,300	7.7	13,000	7.5	12,800	7 3
643	1200	3 04							14,200	9 1	14,000	9 0	13,800	8.8	13,600	8.7
673	4400	3 34							15,000	10 5	14,800	10 5	14,600	10 0	14,400	10 0
704	4600	3 65									15,500	12 0	15,400	11 5	15,200	11.5
735	4800	3 98									16,300	13 5	16,100	13 5	16,000	13.5
765	5000	4.31									17,000	15 5	16,900	15.5	16,700	15 0
804	5250	4 76											17,800	18 0	17,600	17 5
842	5500	5 22											18,700	20 5	18,600	20 5
880	5750	5 71													19,500	23 5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
450	3000	1.55	6,750	2 05												
490	3200	1 77	8,300	2 85	5,650	1 95										
520	3400	2 00	9,570	3 8	7,980	3.1										
551	3600	2 24	10,600	4 8	9,450	4 1	7,490	3 25								
581	3800	2 49	11,600	5 9	10,700	5.3	9,360	4.5	6,880	3 35						
612	4000	2 76	12,500	7 1	11,700	6 5	10,800	5 8	9,100	4 9						
643	4200	3.04	13,300	8 4	12,700	7.9	12,000	7 3	10,800	6 3	9,000	5 4				
673	4400	3 34	14,200	9.9	13,600	9 4	13,000	8.7	12,100	7 9	10,900	7 0				
704	4600	3.65	15,000	11.5	14,500	11 0	13,900	10 5	13,200	9.7	12,300	8 7	9,060	6 5		
735	4800	3.98	15,800	13.0	15,300	12 5	14,800	12 0	14,200	11 5	13,500	10 5	11,200	8 6		
765	5000	4 31	16,600	15.0	16,200	14 5	15,700	14 0	15,200	13.5	14,600	12.5	12,800	10.5	9,400	7 9
804	5250	4.76	17,500	17 5	17,200	17 5	16,800	16.5	16,300	16	15,800	15.5	14,400	13 5	12,100	11.0
842	5500	5 22	18,400	20	18,100	20	17,800	19.5	17,400	19	16,900	18 0	15,700	16 5	14,100	14 5
880	5750	5 71	19,400	23	19,100	23	18,800	22 5	18,400	22	18,000	21.5	17,100	20	15,800	17.5
919	6000	6.21	20,300	26	20,100	26	19,800	26	19,500	25	19,100	24.5	18,200	23	17,200	21.5
956	6250	6.74	21,300	30	21,000	30	20,700	29	20,500	29	20,100	28	19,400	27	18,400	25
995	6500	7 29			22,000	34	21,700	33	21,400	33	21,200	32	20,400	31	19,600	29
1033	6750	7 86			22,900	38	22,600	37	22,400	37	22,100	37	21,500	35	20,800	34
1071	7000	8.45			23,800	42	23,600	42	23,400	41	23,200	41	22,500	40	21,800	38
1149	7500	9.71					25,400	52	25,200	52	25,000	50	24,600	50	24,000	49
1223	8000	11 04							27,100	62	26,900	62	26,600	62	26,100	60
1300	8500	12 48							29,000	76	28,800	76	28,400	71	28,000	74
1378	9000	14.00									30,600	90	30,300	90	30,000	88
1454	9500	15 58											32,200	105	31,800	105
1531	10000	17.27											34,000	125	33,800	120

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
842	5500	5 22	11,400	11 5												
880	5750	5 71	13,900	15 5	10,600	12 0										
919	6000	6 21	15,100	19	13,500	16.5										
956	6250	6 74	17,300	23	15,600	20 5										
995	6500	7.29	18,700	27	17,400	24 5	12,700	18 0								
1033	6750	7 86	19,900	32	18,800	29	15,400	23 5								
1071	7000	8 45	21,200	36	20,200	34	17,500	29	12,200	20						
1149	7500	9 71	23,400	47	22,700	45	20,800	40	17,900	33						
1223	8000	11 04	25,500	58	24,900	56	23,400	52	21,400	46	18,400	39				
1300	8500	12 48	27,600	72	27,100	70	25,800	66	24,300	60	22,200	54	19,200	47		
1378	9000	14 00	29,500	86	29,200	84	28,000	82	26,800	76	25,400	70	23,200	62	20,300	56
1454	9500	15 58	31,500	105	31,200	100	30,200	98	29,100	94	28,000	88	26,400	80	24,300	74
1531	10000	17 27	33,400	120	33,200	120	32,400	115	31,400	110	30,400	105	29,200	100	27,500	94

Single Inlet **Single Width**

Size "F" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
138	1010	.176	2,200	0.076												
164	1200	.249	4,210	0.210												
191	1400	.338	5,430	0.375												
218	1600	.441	6,400	0.59	5,230	0.45										
246	1800	.559	7,470	0.87	6,650	0.75	4,690	0.51								
273	2000	.690	8,360	1.20	7,800	1.10	6,720	0.91								
300	2200	.835	9,390	1.65	8,875	1.55	8,120	1.35	6,820	1.10						
328	2400	.994			9,870	2.05	9,270	1.90	8,450	1.65	6,820	1.3				
355	2600	1.17			10,900	2.65	10,400	2.50	9,730	2.30	8,810	2.0	7,340	1.65		
382	2800	1.35			11,800	3.35	11,300	3.20	10,900	3.00	10,200	2.8	9,300	2.45	7,800	2.05
410	3000	1.55			12,800	4.15	12,400	4.05	12,000	3.85	11,400	3.6	10,700	3.35	9,850	2.95
437	3200	1.77			13,600	5	13,400	4.95	13,000	4.8	12,500	4.6	12,000	4.3	11,300	4.0
464	3400	2.00					14,300	6.0	14,000	5.9	13,600	5.7	13,200	5.4	12,700	5.1
491	3600	2.24					15,300	7.1	14,900	7.1	14,600	6.8	14,300	6.6	13,800	6.3
519	3800	2.49					16,200	8.4	15,900	8.3	15,600	8.2	15,300	8.0	14,900	7.7
546	4000	2.76							16,900	9.8	16,600	9.6	16,300	9.4	16,000	9.2
573	4200	3.04							17,800	11.5	17,600	11	17,300	11.0	17,000	11.0
600	4400	3.31							18,800	13	18,500	13	18,300	13.0	18,000	12.5
628	4600	3.65									19,500	15	19,200	14.5	19,000	14.5
655	4800	3.98									20,400	17	20,200	17.0	20,000	16.5
682	5000	4.31									21,300	19	21,200	19.0	20,900	19
716	5250	4.76											22,900	22.5	22,100	22
750	5500	5.22											23,400	26	23,300	25
785	5750	5.71													24,400	29

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
410	3000	1.55	8,450	2.55												
437	3200	1.77	10,500	3.60	7,060	2.45										
464	3400	2.00	12,000	4.75	10,000	3.85										
491	3600	2.24	13,300	6.0	11,800	5.1	9,370	4.1								
519	3800	2.49	14,500	7.4	13,400	6.6	11,700	5.7	8,620	4.2						
546	4000	2.76	15,600	8.9	14,700	8.2	13,600	7.3	11,500	6.1						
573	4200	3.04	16,700	10.5	15,900	9.9	15,000	9.1	13,500	7.9	11,400	6.7				
600	4400	3.34	17,800	12.5	17,100	12.0	16,300	11.0	15,100	9.9	13,600	8.8				
628	4600	3.65	18,800	14.5	18,100	13.5	17,400	13.0	16,600	12.0	15,400	11.0	11,400	8.1		
655	4800	3.98	19,800	16.5	19,200	16.0	18,500	15.0	17,800	14.5	16,900	13.5	14,000	11.0		
682	5000	4.31	20,800	19	20,200	18.5	19,700	17.5	19,000	16.5	18,300	16	16,000	13.5	11,800	9.9
716	5250	4.76	21,900	22	21,500	22	21,000	20.5	20,400	20.0	19,800	19	18,000	17.0	15,200	14
750	5500	5.22	23,100	25	22,700	25	22,300	24.5	21,800	23.5	21,200	23	19,700	20.5	17,700	18
785	5750	5.71	24,300	29	23,900	29	23,600	28	23,100	27	22,600	27	21,400	25	19,700	22
819	6000	6.21	25,400	33	25,100	33	24,800	32	24,400	31	23,900	31	22,800	29	21,500	27
854	6250	6.74	26,600	38	26,400	37	26,000	37	25,600	36	25,200	35	24,300	34	23,100	31
887	6500	7.29			27,400	42	27,200	41	26,800	41	26,500	41	25,600	39	24,600	37
921	6750	7.86			28,700	47	28,400	47	28,000	46	27,700	46	27,000	44	26,000	42
955	7000	8.45			29,800	52	20,600	52	29,300	52	20,000	52	28,200	50	27,400	48
1021	7500	9.71					31,900	64	31,600	64	31,400	64	30,800	62	30,100	60
1091	8000	11.04							34,000	78	33,700	78	33,300	76	32,600	76
1160	8500	12.48							36,300	94	36,100	94	35,600	94	35,100	92
1229	9000	14.00									38,300	110	38,000	110	37,600	110
1298	9500	15.58											40,400	130	39,900	130
1304	10000	17.27											42,600	155	42,300	150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
750	5500	5.22	14,300	14.5												
785	5750	5.71	17,300	19	13,300	15.0										
819	6000	6.21	19,600	24	16,900	20.5										
854	6250	6.74	21,600	29	19,600	25										
887	6500	7.29	23,400	34	21,700	31	15,900	22.5								
921	6750	7.86	25,000	40	23,600	37	19,300	30								
955	7000	8.45	26,500	46	25,300	43	22,000	36	15,200	25						
1021	7500	9.71	29,300	58	28,400	56	26,100	50	22,400	41						
1091	8000	11.04	32,000	74	31,200	72	29,300	66	26,900	58	23,100	50				
1160	8500	12.48	34,600	90	34,000	88	32,400	82	30,500	76	27,800	68	24,000	58		
1229	9000	14.00	37,000	110	36,500	105	35,200	100	33,600	96	31,800	88	29,000	78	25,400	70
1298	9500	15.58	39,400	130	39,000	125	37,900	125	36,500	115	35,000	110	33,000	100	30,500	92
1364	10000	17.27	41,900	150	41,500	150	40,500	145	39,400	140	38,000	135	36,500	125	34,500	120

Single Inlet

Size "G" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
120	1010	.176	2,860	0.09												
143	1200	.249	5,490	0.27												
167	1400	.338	7,070	0.49												
191	1600	.441	8,350	0.77	6,810	0.58										
215	1800	.559	9,740	1.15	8,660	0.98	6,110	0.67								
238	2000	.690	10,900	1.60	10,200	1.45	8,760	1.20								
262	2200	.835	12,200	2.15	11,500	2.00	10,600	1.80	8,900	1.40						
286	2400	.994			12,900	2.70	12,100	2.50	11,000	2.15	8,900	1.7				
310	2600	1.17			14,200	3.45	13,500	3.30	12,700	3.00	11,500	2.6	9,550	2.15		
334	2800	1.35			15,400	4.35	14,700	4.15	14,200	3.95	13,300	3.6	12,100	3.20	10,200	2.70
358	3000	1.55			16,600	5.4	16,100	5.3	15,600	5.0	11,900	4.7	14,000	4.35	12,800	3.85
382	3200	1.77			17,800	6.6	17,400	6.5	16,900	6.2	16,300	6.0	15,600	5.6	14,800	5.2
406	3400	2.00					18,600	7.8	18,200	7.6	17,700	7.4	17,100	7.1	16,500	6.7
430	3600	2.24					19,900	9.3	19,500	9.2	19,100	8.9	18,600	8.6	18,000	8.3
453	3800	2.49					21,000	11	20,700	11	20,300	10.5	19,900	10.5	19,400	10.0
477	4000	2.76							22,000	13	21,600	12.5	21,200	12.5	20,800	12.0
501	4200	3.04							23,200	15	22,900	14.5	22,500	14.5	22,200	14.0
525	4400	3.34							24,400	17	24,100	17.0	23,800	16.5	23,500	16.5
549	4600	3.65									25,400	19.5	25,000	19	24,800	19.0
572	4800	3.98									26,500	22	26,300	22	26,000	21.5
596	5000	4.31									27,800	25	27,600	25	27,300	21.5
626	5250	4.76											29,000	29	28,800	29
656	5500	5.22											30,500	34	30,300	33
686	5750	5.71													31,900	38

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
358	3000	1.55	11,000	3.30												
382	3200	1.77	13,600	4.65	9,200	3.2										
406	3400	2.00	15,600	6.2	13,000	5.0										
430	3600	2.24	17,300	7.8	15,400	6.7	12,200	5.3								
453	3800	2.49	18,900	9.6	17,400	8.6	15,300	7.4	11,200	5.5						
477	4000	2.76	20,300	11.5	19,100	10.5	17,700	9.5	15,000	8.0						
501	4200	3.04	21,700	13.5	20,700	13.0	19,600	12.0	17,600	10.5	14,800	8.8				
525	4400	3.34	23,100	16.0	22,200	15.5	21,200	14.0	19,700	13.0	17,800	11.5				
549	4600	3.65	24,400	18.5	23,600	18.0	22,700	17.0	21,600	16.0	20,100	14.0	14,800	10.5		
572	4800	3.98	25,800	21.5	25,000	20.5	24,100	19.5	23,200	18.5	22,000	17.5	18,200	14.0		
596	5000	4.31	27,000	24.5	26,300	24	25,600	23	24,800	22	23,800	20.5	20,800	17.5	15,400	13.5
626	5250	4.76	28,600	29	28,000	28	27,300	27	26,600	26	25,800	25	23,500	22	19,800	18.5
656	5500	5.22	30,100	33	29,600	32	29,000	32	28,400	31	27,600	30	25,600	27	23,100	23.5
686	5750	5.71	31,600	38	31,200	37	30,700	37	30,000	36	29,400	35	27,900	32	25,700	29
716	6000	6.21	33,200	43	32,700	43	32,300	42	31,800	41	31,100	40	29,800	38	28,000	35
746	6250	6.74	34,700	49	34,300	49	33,800	48	33,400	47	32,800	46	31,600	44	30,100	41
775	6500	7.29			35,800	54	35,400	54	35,000	54	34,500	52	33,400	50	32,100	48
805	6750	7.86			37,300	62	36,900	60	36,500	60	36,100	60	35,100	58	33,900	54
835	7000	8.45			38,800	68	38,500	68	38,200	68	37,800	66	36,800	64	35,700	62
805	7500	9.71					41,500	84	41,200	84	40,900	84	40,100	82	39,200	80
955	8000	11.04							44,300	105	43,900	100	43,300	100	42,600	98
1014	8500	12.48							47,400	125	47,100	125	46,500	120	45,700	120
1074	9000	14.00									50,000	145	49,500	145	49,000	145
1133	9500	15.58											52,600	170	52,000	170
1193	10000	17.27											55,500	200	55,100	200

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
656	5500	5.22	18,700	19												
686	5750	5.71	22,600	25	17,300	19.5										
716	6000	6.21	25,600	31	22,000	27										
746	6250	6.74	28,200	37	25,500	33										
775	6500	7.29	30,400	45	28,300	40	20,800	30								
805	6750	7.86	32,500	52	30,800	48	25,200	38								
835	7000	8.45	34,500	60	33,000	56	28,600	47	19,800	33						
805	7500	9.71	38,100	76	37,000	74	33,900	66	29,200	54						
955	8000	11.04	41,600	96	40,600	92	38,200	86	35,000	76	30,000	64				
1014	8500	12.48	45,000	115	44,200	115	42,200	110	39,800	100	36,300	88	31,300	76		
1074	9000	14.00	48,100	140	47,500	140	45,800	135	43,700	125	41,400	115	37,800	100	33,100	90
1133	9500	15.58	51,500	170	50,800	165	49,400	160	47,600	150	45,700	145	43,000	130	39,700	120
1193	10000	17.27	54,500	200	54,200	195	52,800	190	51,300	185	49,500	175	47,600	165	44,900	155

Single Inlet **Size "H" Supervane Fan—Design 1** **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
107	1010	.176	3,640	0.125												
127	1200	.249	6,970	0.345												
149	1400	.338	8,980	0.62												
170	1600	.441	10,600	0.98	8,650	0.74										
191	1800	.559	12,300	1.45	11,000	1.25	7,750	0.84								
212	2000	.690	13,800	2.0	12,900	1.85	11,100	1.50								
233	2200	.835	15,500	2.7	14,600	2.55	13,400	2.25	11,300	1.80						
255	2400	.994			16,300	3.40	15,300	3.15	13,900	2.75	11,300	2.2				
276	2600	1.17			18,100	4.35	17,100	4.15	16,100	3.8	14,600	3.3	12,100	2.75		
297	2800	1.35			19,500	5.5	18,700	5.3	18,000	5.0	16,900	4.6	15,400	4.05	12,900	3.4
318	3000	1.55			21,100	6.9	20,400	6.7	19,700	6.4	18,900	6.0	17,800	5.5	16,300	4.9
340	3200	1.77			22,600	8.3	22,000	8.2	21,400	7.9	20,700	7.6	19,800	7.1	18,700	6.6
361	3400	2.00					23,600	9.9	23,100	9.7	22,500	9.4	21,700	9.0	20,900	8.5
382	3600	2.24					25,200	12	24,700	11.5	24,200	11.5	23,500	11.0	22,800	10.5
403	3800	2.49					26,200	14	26,300	14.0	25,800	13.5	25,200	13.0	24,000	12.5
425	4000	2.76							27,800	16.5	27,400	16.0	26,900	15.5	26,400	15
445	4200	3.04							29,400	19	29,000	18.5	28,600	18.5	28,100	18
467	4400	3.34							31,000	22	30,600	21.5	30,200	21.0	29,800	21
488	4600	3.65									32,200	25	31,800	24.5	31,400	24
510	4800	3.98									33,700	28	33,300	28	33,000	27
531	5000	4.31									35,200	32	35,000	32	34,600	31
557	5250	4.76											36,800	37	36,500	37
584	5500	5.22											38,700	43	38,400	42
610	5750	5.71													40,300	48

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
318	3000	1.55	14,000	4.2												
340	3200	1.77	17,300	5.9	11,700	4.1										
361	3400	2.00	19,800	7.9	16,500	6.4										
382	3600	2.24	22,000	9.9	19,600	8.5	15,500	6.7								
403	3800	2.49	23,900	12.0	22,100	11.0	19,400	9.4	14,800	7.0						
425	4000	2.76	25,800	14.5	24,300	13.5	22,400	12.0	19,000	10.0						
445	4200	3.04	27,500	17.5	26,300	16.5	24,900	15.0	22,300	13.0	18,800	11.0				
467	4400	3.34	29,400	20.5	28,300	19.5	26,900	18.0	25,000	16.5	22,600	14.5				
488	4600	3.65	31,100	24	30,000	22.5	28,800	21.5	27,400	20.0	25,500	18	18,800	13.5		
510	4800	3.98	32,700	27	31,700	26	30,600	25	29,400	23.5	27,900	22	23,100	18		
531	5000	4.31	34,300	31	33,500	30	32,500	29	31,400	28	30,200	26	26,400	22	19,500	16.5
557	5250	4.76	36,200	36	35,500	36	34,600	34	33,800	33	32,700	32	29,800	28	25,200	23
584	5500	5.22	38,200	42	37,500	41	36,800	40	35,900	39	35,000	38	32,500	34	29,300	30
610	5750	5.71	40,100	48	39,500	47	38,900	47	38,100	45	37,300	44	35,400	41	32,600	37
637	6000	6.21	42,100	54	41,500	54	41,000	54	40,300	52	39,500	52	37,800	48	35,600	44
663	6250	6.74	44,000	62	43,600	62	42,900	60	42,400	60	41,600	58	40,000	56	38,200	52
690	6500	7.29			45,400	70	45,000	68	44,400	68	43,800	66	42,300	64	40,700	60
716	6750	7.86			47,400	78	46,800	78	46,300	76	45,800	76	44,600	72	43,000	70
743	7000	8.45			49,200	88	48,800	86	48,400	86	47,900	84	46,600	82	45,300	80
796	7500	9.71					52,700	105	52,200	105	51,800	105	50,900	105	49,700	100
849	8000	11.04							56,100	130	55,600	130	55,000	125	54,000	125
902	8500	12.48							60,000	155	59,600	155	58,900	155	58,000	150
955	9000	14.00									63,300	185	62,800	185	62,100	180
1008	9500	15.58											66,600	220	65,900	215
1060	10000	17.27											70,500	255	69,800	250

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
584	5500	5.22	23,700	24												
610	5750	5.71	28,600	32	21,900	24.5										
637	6000	6.21	32,500	39	27,900	34										
663	6250	6.74	35,800	47	32,300	42										
690	6500	7.29	38,600	56	35,900	50	26,400	38								
716	6750	7.86	41,200	66	39,000	60	32,000	49								
743	7000	8.45	43,700	76	41,900	70	36,300	60	25,100	42						
796	7500	9.71	48,400	98	47,000	94	43,100	82	37,000	68						
849	8000	11.04	52,900	120	51,600	120	48,500	110	44,400	90	38,100	82				
902	8500	12.48	57,100	150	56,000	145	53,500	135	50,400	125	46,000	110	39,700	96		
955	9000	14.00	61,100	180	60,400	175	58,100	170	55,500	160	52,500	145	48,000	130	42,000	115
1008	9500	15.58	65,300	215	64,500	210	62,600	205	60,400	195	58,000	180	54,600	170	50,400	160
1060	10000	17.27	69,200	250	68,700	250	67,000	240	65,000	230	62,800	220	60,400	210	57,000	195

Single Inlet

Size "J" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
96	1010	176	4,480	0.155												
115	1200	219	8,600	0.425												
134	1400	338	11,100	0.76												
153	1600	441	13,100	1.20	10,700	0.92										
172	1800	559	15,200	1.80	13,600	1.55	9,550	1.05								
191	2000	690	17,100	2.45	15,900	2.25	13,700	1.85								
210	2200	835	19,100	3.35	18,100	3.15	16,600	2.8	13,900	2.2						
229	2400	994			20,100	4.2	18,900	3.9	17,200	3.4	13,900	2.7				
248	2600	1.17			22,300	5.4	21,100	5.1	19,800	4.7	18,000	4.1	15,000	3.4		
268	2800	1.35			24,100	6.8	23,100	6.5	22,200	6.2	20,800	5.7	19,000	5.0	15,900	4.2
287	3000	1.55			26,000	8.5	25,200	8.2	24,400	7.9	23,300	7.4	21,900	6.8	20,100	6.0
306	3200	1.77			27,800	10.5	27,200	10.0	26,500	9.7	25,600	9.4	24,500	8.8	23,100	8.1
325	3400	2.00					29,100	12.0	28,500	12.0	27,800	11.5	26,800	11.0	25,800	10.5
344	3600	2.24					31,100	14.5	30,400	14.5	29,800	14.0	29,100	13.5	28,100	13.0
363	3800	2.49					33,000	17	32,500	17	31,800	17.0	31,100	16.0	30,400	15.5
382	4000	2.76							34,400	20	33,800	19.5	33,200	19.0	32,600	18.5
401	4200	3.04							36,300	23	35,800	23	35,300	22.5	34,700	22
420	4400	3.34							38,200	27	37,800	27	37,300	26	36,700	26
440	4600	3.65									39,700	31	39,200	30	38,700	30
459	4800	3.98									41,500	35	41,100	34	40,700	34
478	5000	4.31									43,500	39	43,100	39	42,600	39
501	5250	4.76											45,400	46	45,000	45
545	5500	5.22											47,900	52	47,500	52
549	5750	5.71													49,900	60

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
287	3000	1.55	17,200	5.2												
306	3200	1.77	21,400	7.3	14,400	5.0										
325	3400	2.00	24,400	9.7	20,400	7.9										
344	3600	2.24	27,200	12.5	24,200	10.5	19,100	8.3								
363	3800	2.49	29,500	15.0	27,300	13.5	23,900	11.5	17,600	8.6						
382	4000	2.76	31,800	18.0	30,000	16.5	27,700	15.0	23,500	12.5						
401	4200	3.04	34,000	21.5	32,500	20	30,700	18.5	27,500	16.0	23,200	13.5				
420	4400	3.34	36,200	25	34,800	24	33,200	22.5	30,800	20.5	27,800	18.0				
440	4600	3.65	38,300	29	37,000	28	35,500	26	33,800	24.5	31,400	22.5	23,200	16.5		
459	4800	3.98	40,400	34	39,100	32	37,800	31	36,400	29	34,400	27	28,500	22		
478	5000	4.31	42,300	38	41,300	37	40,100	36	38,700	34	37,200	32	32,600	27	24,100	20.5
501	5250	4.76	44,700	45	43,900	44	42,800	42	41,700	41	40,400	30	36,800	34	31,000	29
525	5500	5.22	47,100	52	46,300	50	45,500	50	44,400	48	43,200	46	40,100	42	36,100	37
549	5750	5.71	49,500	60	48,800	58	48,000	58	47,100	56	46,000	54	43,600	50	40,300	45
574	6000	6.21	51,900	68	51,300	66	50,500	66	49,700	64	48,800	64	46,600	60	43,900	54
597	6250	6.74	54,300	76	53,700	76	53,000	74	52,200	74	51,400	72	49,500	68	47,100	64
621	6500	7.29			56,000	86	55,500	84	54,700	84	54,000	82	52,100	78	50,100	74
645	6750	7.86			58,500	96	57,800	95	57,100	94	56,500	94	55,000	90	53,000	86
669	7000	8.45			60,700	110	60,200	105	59,600	105	59,100	105	57,500	100	55,800	98
716	7500	9.71					65,000	135	64,500	130	64,000	130	62,800	130	61,300	125
764	8000	11.04							69,200	160	68,700	160	67,800	155	66,500	155
812	8500	12.48							74,000	195	73,600	190	72,600	190	71,500	190
860	9000	14.00									78,100	230	77,400	230	76,500	225
908	9500	15.58											82,300	270	81,400	265
955	10000	17.27											86,900	315	86,200	310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
525	5500	5.22	29,200	30												
549	5750	5.71	35,400	39	27,100	30										
574	6000	6.21	40,000	48	34,400	42										
597	6250	6.74	44,100	58	39,800	52										
621	6500	7.29	47,600	70	44,300	62	32,500	46								
645	6750	7.86	50,900	80	48,100	74	39,400	60								
669	7000	8.45	54,000	94	51,700	88	44,800	74	31,000	52						
716	7500	9.71	59,600	120	58,000	115	53,100	100	45,600	84						
764	8000	11.04	65,100	150	63,600	145	59,900	135	54,800	120	47,000	100				
812	8500	12.48	70,400	185	69,200	180	66,000	170	62,100	155	56,800	140	49,000	120		
860	9000	14.00	75,300	220	74,500	215	71,800	210	68,500	195	64,800	180	59,200	160	51,800	140
908	9500	15.58	80,500	265	79,500	260	77,300	250	74,500	240	71,500	225	67,400	205	62,200	190
955	10000	17.27	85,300	310	84,600	305	82,500	300	80,100	285	77,500	275	74,500	260	70,400	240

Single Inlet | **Single Width**

Size "K" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
84	1010	.176	5,940	0.205												
100	1200	.249	11,400	0.56												
116	1400	.338	14,700	1.00												
133	1600	.441	17,300	1.60	14,200	1.20										
150	1800	.559	20,200	2.35	18,000	2.05	12,700	1.40								
166	2000	.690	22,600	3.25	21,100	3.0	18,200	2.45								
183	2200	.835	25,400	4.45	24,000	4.2	22,000	3.7	18,500	2.9						
199	2400	.994			26,700	5.6	25,100	5.2	22,800	4.5	18,500	3.55				
216	2600	1.17			29,600	7.2	28,000	6.8	26,300	6.2	23,900	5.4	19,800	4.5		
233	2800	1.35			31,900	9.0	30,600	8.6	29,400	8.2	27,600	7.5	25,200	6.6	21,100	5.6
249	3000	1.55			34,500	11.5	33,400	11.0	32,300	10.5	30,900	9.8	29,100	9.0	26,600	8
266	3200	1.77			36,900	13.5	36,100	13.5	35,100	13.0	33,900	12.5	32,500	11.5	30,700	11
282	3400	2.00					38,600	16.0	37,800	16.0	36,800	15.0	35,500	14.5	34,300	14
299	3600	2.24					41,300	19.5	40,400	19.0	39,600	18.5	38,600	18.0	37,300	17
316	3800	2.49					43,700	23	43,100	22.5	42,200	22	41,300	21.5	40,300	21
332	4000	2.76							45,600	27	44,900	26	44,100	26	43,200	25
349	4200	3.04							48,100	31	47,500	30	46,800	30	46,000	29
365	4400	3.34							50,700	36	50,100	35	49,500	35	48,700	34
382	4600	3.65									52,600	41	52,000	40	51,400	39
399	4800	3.98									55,100	46	54,500	46	54,000	45
415	5000	4.31									57,600	52	57,200	52	56,600	52
436	5250	4.76											60,300	60	59,800	60
456	5500	5.22											63,500	70	63,000	68
477	5750	5.71													66,100	80

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
249	3000	1.55	22,800	6.9												
266	3200	1.77	28,400	9.7	19,100	6.6										
282	3400	2.00	32,400	13.0	27,000	10.5										
299	3600	2.24	36,000	16.5	32,000	14	25,400	11.0								
316	3800	2.49	39,200	20	36,200	18	31,700	15.5	23,300	11.5						
332	4000	2.76	42,200	24	39,800	22	36,700	20.0	31,100	16.5						
349	4200	3.04	45,100	28	43,100	27	40,700	24.5	36,500	21.5	30,800	18				
365	4400	3.34	48,100	33	46,200	32	44,000	30	40,900	27	36,900	24				
382	4600	3.65	50,800	39	49,100	37	47,100	35	44,800	33	41,700	30	30,700	22		
399	4800	3.98	53,500	45	51,900	43	50,100	41	48,200	39	45,700	36	37,800	29		
415	5000	4.31	56,100	52	54,700	49	53,100	47	51,500	45	49,400	43	43,300	36	31,900	27
436	5250	4.76	59,300	60	58,100	58	56,700	56	55,300	54	53,500	52	48,800	46	41,200	38
456	5500	5.22	62,500	68	61,400	68	60,300	66	58,900	64	57,400	62	53,300	56	48,000	48
477	5750	5.71	65,600	78	64,800	78	63,700	76	62,400	74	61,100	72	57,900	68	53,400	60
498	6000	6.21	68,800	90	68,000	88	67,000	88	66,000	86	64,700	84	61,800	78	58,200	72
519	6250	6.74	72,000	100	71,300	100	70,200	100	69,400	98	68,200	96	65,600	92	62,500	84
540	6500	7.29			74,300	115	73,500	110	72,600	110	71,700	110	69,200	105	66,600	100
560	6750	7.86			77,500	130	76,700	125	75,900	125	75,000	125	72,900	120	70,400	115
581	7000	8.45			80,500	145	80,000	140	79,100	140	78,400	140	76,400	135	74,100	130
623	7500	9.71					86,100	175	85,500	175	84,900	170	83,400	170	81,400	165
664	8000	11.04							92,000	215	91,100	210	90,000	210	88,300	205
705	8500	12.48							98,300	255	97,700	255	96,400	255	94,800	250
747	9000	14.00									103,600	305	103,000	300	102,000	300
788	9500	15.58											109,000	355	108,000	350
830	10000	17.27											115,000	415	114,000	415

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
456	5500	5.22	38,700	39												
477	5750	5.71	46,900	52	35,900	40										
498	6000	6.21	53,100	64	45,600	56										
519	6250	6.74	58,500	78	52,900	68										
540	6500	7.29	63,200	92	58,800	84	43,100	62								
560	6750	7.86	67,500	105	63,900	100	52,300	80								
581	7000	8.45	71,600	125	68,500	115	59,400	96	41,200	68						
623	7500	9.71	79,100	160	76,800	150	70,500	135	60,500	110						
664	8000	11.04	86,400	200	84,400	195	79,400	175	72,600	155	62,300	135				
705	8500	12.48	93,500	245	91,800	240	87,500	225	82,500	205	75,400	185	65,000	160		
747	9000	14.00	95,900	295	98,800	290	95,100	275	90,700	260	85,900	240	78,500	210	68,700	185
788	9500	15.58	107,000	350	106,000	345	103,000	330	98,800	315	94,800	300	89,400	275	82,500	250
830	10000	17.27	113,000	410	112,000	405	110,000	395	106,000	380	103,000	360	98,800	340	93,300	320

Single Inlet **Single Width**

Size "L" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
74	1010	.176	7,570	.26												
88	1200	.249	14,500	.72												
103	1400	.338	18,700	1.30												
118	1600	.441	22,100	2.05	18,000	1.55										
132	1800	.559	25,800	3.00	22,900	2.6	16,200	1.75								
147	2000	.690	28,900	4.15	26,900	3.8	23,200	3.1								
162	2200	.835	32,400	5.7	30,600	5.3	28,000	4.7	23,500	3.75						
176	2400	.994			34,000	7.1	32,000	6.6	29,100	5.7	23,500	4.55				
191	2600	1.17			37,700	9.1	35,800	8.7	33,500	7.9	30,400	6.9	25,300	5.7		
206	2800	1.35			40,700	11.5	39,000	11.0	37,500	10.5	35,200	9.6	32,000	8.4	26,900	7.1
220	3000	1.55			44,000	14.5	42,600	14.0	41,200	13.5	39,400	12.5	37,000	11.5	33,900	10.0
235	3200	1.77			47,000	17.5	46,000	17.0	44,700	16.5	43,200	16.0	41,400	15.0	39,100	13.5
250	3400	2.00					49,300	20.5	48,200	20.0	46,900	19.5	45,300	18.5	43,600	17.5
264	3600	2.24					52,600	24.5	51,500	24.5	50,500	23.5	49,100	23	47,500	22
279	3800	2.49					55,700	29	54,900	29	53,700	28	52,600	27	51,300	27
294	4000	2.76							58,100	34	57,100	33	56,200	32	55,000	32
309	4200	3.04							61,400	39	60,500	39	59,600	38	58,600	37
323	4400	3.34							64,600	45	63,800	45	63,000	44	62,100	44
338	4600	3.65									67,100	52	66,300	50	65,400	50
353	4800	3.98									70,200	58	69,500	58	68,900	58
368	5000	4.31									73,400	66	72,900	66	72,100	66
386	5250	4.76											76,900	76	76,100	76
401	5500	5.22											80,800	88	80,200	88
423	5750	5.71													84,300	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
220	3000	1.55	29,100	8.8												
235	3200	1.77	36,100	12.5	24,400	8.4										
250	3400	2.00	41,300	16.5	34,400	13.5										
264	3600	2.24	45,900	20.5	40,800	17.5	32,300	14.0								
279	3800	2.49	49,900	25	46,100	23	40,400	19.5	29,700	14.5						
294	4000	2.76	53,800	31	50,700	28	46,800	25	39,700	21						
309	4200	3.04	57,500	36	54,900	34	51,900	31	46,500	27	39,300	23				
323	4400	3.34	61,200	43	58,800	41	56,000	38	52,100	34	47,000	30				
338	4600	3.65	64,700	49	62,500	47	60,000	45	57,200	42	53,100	38	39,200	28		
353	4800	3.98	68,200	56	66,100	54	63,800	52	61,400	49	58,200	46	48,200	37		
368	5000	4.31	71,500	64	69,600	64	67,700	60	65,500	58	63,000	54	55,100	46	40,600	34
386	5250	4.76	75,500	76	74,000	76	72,200	72	70,500	70	68,200	66	62,200	58	52,500	48
404	5500	5.22	79,600	88	78,200	86	76,900	84	75,000	80	73,100	78	67,900	70	61,100	62
423	5750	5.71	83,600	100	82,500	98	81,200	98	79,500	94	77,900	92	73,800	86	68,100	76
441	6000	6.21	87,700	115	86,500	115	85,500	110	84,100	110	82,400	105	78,800	100	74,200	92
459	6250	6.74	91,800	130	90,800	130	89,500	125	88,400	125	87,000	120	83,600	115	79,600	110
478	6500	7.29			94,700	145	93,700	145	92,500	140	91,300	140	88,200	135	84,900	125
496	6750	7.86			98,800	165	97,700	160	96,600	160	95,500	160	92,900	150	89,700	145
514	7000	8.45			103,000	180	102,000	180	101,000	180	99,900	175	97,300	170	94,400	165
551	7500	9.71					110,000	225	109,000	220	108,000	220	106,000	215	104,000	210
588	8000	11.04							117,000	270	116,000	270	115,000	265	113,000	260
625	8500	12.48							125,000	325	124,000	325	123,000	320	121,000	315
661	9000	14.00									132,000	385	131,000	385	129,000	380
698	9500	15.58											139,000	455	138,000	450
734	10000	17.27											147,000	530	146,000	525

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
404	5500	5.22	49,400	50												
423	5750	5.71	59,800	66	45,800	52										
441	6000	6.21	67,700	82	58,200	70										
459	6250	6.74	74,000	98	67,400	88										
478	6500	7.29	80,600	115	74,900	105	55,000	78								
496	6750	7.86	86,100	135	81,400	125	66,600	100								
514	7000	8.45	91,200	155	87,400	150	75,700	125	52,500	88						
551	7500	9.71	101,000	200	98,000	195	89,800	170	77,200	140						
588	8000	11.04	110,000	255	108,000	245	101,000	225	92,000	200	79,500	170				
625	8500	12.48	119,000	310	117,000	305	112,000	285	105,000	260	96,000	230	82,800	200		
661	9000	14.00	127,000	375	126,000	365	121,000	350	116,000	330	109,000	305	100,000	270	87,500	240
698	9500	15.58	136,000	445	135,000	440	131,000	425	126,000	405	121,000	380	114,000	350	105,000	315
734	10000	17.27	144,000	525	143,000	515	140,000	505	136,000	485	131,000	460	126,000	435	119,000	405

Single Inlet **Single Width**

Size "M" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
66	1010	.176	9,430	.325												
79	1200	.249	18,000	.89												
92	1400	.338	23,300	1 60												
105	1600	.441	27,500	2 55	24,500	1 95										
118	1800	.559	32,100	3.75	28,600	3.20	20,100	2 2								
132	2000	.690	35,900	5.2	33,500	4.75	28,800	3 9								
145	2200	.835	40,300	7.	38,000	6 6	34,000	5 9	29,300	4.65						
158	2400	.904			42,400	8.8	39,800	8 2	36,200	7.2	29,300	5 7				
171	2600	1 17			46,900	11.5	44,500	11.0	41,700	9.9	37,900	8 6	31,500	7.1		
184	2800	1 35			50,600	14.5	48,500	13.5	46,600	13.0	43,800	12.0	39,900	10.5	33,500	8.8
197	3000	1.55			54,700	18 0	53.100	17.5	51,300	16.5	49,000	15 5	46,100	14.5	42,200	12.5
210	3200	1.77			58,600	21.5	57,300	21 5	55,600	20.5	53,800	19 5	51,500	18 5	48,600	17
224	3400	2 00					61,300	26	60,000	25	58,400	24.5	56,400	23	54,400	22
237	3600	2 24					65,500	31	64,100	30	62,800	29	61,200	28	59,200	27
250	3800	2 49					69,400	36	68,300	36	67,000	35	65,500	34	63,900	33
263	4000	2 76							72,400	42	71,200	41	69,900	40	68,500	39
276	4200	3 01							76,400	49	75,400	48	74,200	47	73,000	47
290	4400	3 31							80,500	56	79,500	56	78,400	54	77,300	54
303	4600	3.65									83,500	64	82,500	64	81,500	62
316	4800	3 98									87,400	72	86,500	72	85,700	72
329	5000	4 31									91,500	82	90,800	82	89,800	82
345	5250	4 76											95,600	96	94,900	96
362	5500	5 22											101,000	110	99,900	110
378	5750	5 71													105,000	125

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
197	3000	1 55	36,200	11 0												
210	3200	1 77	45,000	15 5	30,300	10.5										
224	3400	2 00	51,500	20.5	42,900	16.5										
237	3600	2 24	57,100	26	50,800	22	40,200	17.5								
250	3800	2.49	62,100	32	57,400	28	50,300	24.5	37,000	18						
263	4000	2.76	67,000	38	63,100	35	58,300	31	49,400	26						
276	4200	3.04	71,500	45	68,300	42	64,500	39	57,900	34	48,800	29				
290	4400	3.34	76,200	54	73,300	50	69,800	47	64,900	48	58,500	38				
303	4600	3.65	80,500	62	77,900	58	74,800	56	71,200	52	66,100	47	48,800	35		
316	4800	3 98	84,900	70	82,300	68	79,500	64	76,500	62	72,500	58	60,000	46		
329	5000	4 31	89,000	80	86,900	78	84,300	76	81,600	72	78,400	68	68,600	58	50,600	43
345	5250	4.76	94,000	94	92,200	94	90,000	88	87,700	86	84,900	82	77,400	72	65,400	60
362	5500	5.22	99,100	110	97,500	105	95,600	105	93,400	100	90,900	98	84,500	88	76,000	76
378	5750	5 71	104,000	125	103,000	125	101,000	120	99,000	120	97,000	115	91,900	105	84,800	94
395	6000	6 21	109,000	140	108,000	140	106,000	140	105,000	135	106,000	135	98,000	125	92,300	115
411	6250	6 74	114,000	160	113,000	160	111,000	160	110,000	155	108,000	150	104,000	145	99,100	135
428	6500	7 29			118,000	180	117,000	180	115,000	175	114,000	175	110,000	165	106,000	155
444	6750	7 86			123,000	205	122,000	200	120,000	200	119,000	195	116,000	190	112,000	180
460	7000	8 45			128,000	225	127,000	225	126,000	225	124,000	220	121,000	215	117,000	205
494	7500	9 71					137,000	280	136,000	275	135,000	275	132,000	270	129,000	260
526	8000	11 04							146,000	340	145,000	335	143,000	330	140,000	325
560	8500	12 48							156,000	405	155,000	405	153,000	400	150,000	395
592	9000	14.00									165,000	480	163,000	480	161,000	470
625	9500	15.58											173,000	565	171,000	560
659	10000	17.27											183,000	660	181,000	655

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
362	5500	5.22	61,500	62												
378	5750	5 71	74,400	82	57,000	64										
395	6000	6.21	81,300	100	72,500	88										
411	6250	6 74	92,800	125	84,000	110										
428	6500	7.29	100,000	145	93,200	130	68,400	98								
444	6750	7.86	107,000	170	101,000	160	83,000	125								
460	7000	8 45	114,000	195	109,000	185	94,200	155	65,400	110						
494	7500	9 71	126,000	250	122,000	240	112,000	215	96,000	175						
526	8000	11 04	137,000	315	134,000	305	126,000	280	115,000	250	98,900	210				
560	8500	12.48	148,000	385	146,000	308	139,000	355	131,000	325	120,000	290	103,000	250		
592	9000	14.00	159,000	465	157,000	455	151,000	435	144,000	410	136,000	380	125,000	335	109,000	295
625	9500	15.58	169,000	555	168,000	545	163,000	525	157,000	500	150,000	470	142,000	435	131,000	305
659	10000	17 27	180,000	650	178,000	645	174,000	630	169,000	605	163,000	575	157,000	545	148,000	505

Single Inlet **Single Width**

Size "N" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
60	1010	.176	11,500	0.40												
72	1200	.249	22,000	1.10												
84	1400	.338	28,300	1.95												
95	1600	.411	33,400	3.1	27,300	2.35										
107	1800	.559	39,000	4.6	34,700	3.9	21,500	2.65								
119	2000	.690	43,600	6.3	40,000	5.8	35,100	4.7								
131	2200	.837	49,000	8.6	46,200	8.1	42,400	7.1	35,600	5.7						
143	2400	.994			51,500	10.5	48,400	9.9	44,100	8.7	35,600	6.9				
155	2600	1.17			57,000	14.0	54,100	13.0	50,700	12.0	46,000	10.5	38,200	8.7		
167	2800	1.35			61,600	17.5	59,000	16.5	56,800	15.5	53,300	14.5	48,500	12.5	40,700	10.
179	3000	1.55			66,500	22	64,500	21	62,400	20	59,600	19	56,000	17.5	51,300	15
191	3200	1.77			71,200	26	69,600	26	67,700	25	65,400	24	62,600	22.5	59,100	21
203	3400	2.00					74,600	31	73,000	31	71,000	30	68,600	28	66,100	27
215	3600	2.24					79,700	37	77,900	37	76,300	36	74,400	35	72,000	33
227	3800	2.49					81,100	44	83,000	43	81,400	43	79,700	41	77,600	40
239	4000	2.76							88,000	52	86,500	50	85,000	49	83,400	48
251	4200	3.01							92,900	60	91,600	58	90,300	58	88,900	56
263	4400	3.34							97,900	68	96,600	68	95,400	66	94,000	66
274	4600	3.65									102,000	78	100,000	76	99,100	76
286	4800	3.98									106,000	88	105,000	88	104,000	86
298	5000	4.31									111,000	100	110,000	100	109,000	98
313	5250	4.76											116,000	115	115,000	115
328	5500	5.22											122,000	135	121,000	135
343	5750	5.71													128,000	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
179	3000	1.55	44,000	13.5												
191	3200	1.77	54,700	18.5	36,900	13										
203	3400	2.00	62,500	25	52,100	20										
215	3600	2.24	69,500	31	61,800	27	58,900	21.5								
227	3800	2.49	75,500	38	69,900	35	61,200	30	45,000	22						
239	4000	2.76	81,400	46	76,700	43	70,800	38	60,100	32						
251	4200	3.04	87,000	54	83,000	52	73,500	47	70,500	41	59,400	35				
263	4400	3.34	92,600	64	89,000	62	84,800	58	79,000	52	71,200	46				
274	4600	3.65	97,900	74	94,600	72	91,000	68	86,500	64	80,500	58	59,300	42		
286	4800	3.98	103,000	86	100,000	82	96,600	78	93,000	74	88,000	70	73,000	56		
298	5000	4.31	108,000	98	106,000	96	103,000	92	99,200	88	95,300	82	83,500	70	61,500	52
313	5250	4.76	114,000	115	112,000	115	109,000	110	107,000	105	103,000	100	94,100	88	79,500	74
328	5500	5.22	120,000	130	118,000	130	116,000	125	114,000	125	111,000	120	103,000	105	92,500	94
343	5750	5.71	127,000	150	125,000	150	123,000	145	120,000	145	118,000	140	112,000	130	103,000	115
358	6000	6.21	133,000	170	131,000	170	129,000	170	127,000	165	125,000	160	119,000	150	112,000	140
373	6250	6.74	139,000	195	137,000	195	135,000	190	134,000	190	132,000	185	127,000	175	121,000	165
388	6500	7.29			143,000	220	142,000	220	140,000	215	138,000	210	134,000	200	128,000	190
403	6750	7.86			150,000	245	148,000	245	146,000	240	145,000	240	141,000	230	136,000	220
418	7000	8.45			155,000	275	154,000	275	153,000	270	151,000	270	147,000	260	143,000	250
448	7500	9.71					106,000	340	165,000	335	164,000	330	161,000	330	157,000	320
477	8000	11.04							177,000	410	176,000	405	174,000	400	170,000	395
507	8500	12.48							190,000	495	188,000	490	186,000	490	183,000	480
536	9000	14.00									200,000	595	198,000	580	196,000	575
567	9500	15.58											211,000	690	208,000	680
596	10000	17.27											222,000	805	220,000	795

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
328	5500	5.22	74,800	76												
343	5750	5.71	90,500	105	69,200	78										
358	6000	6.21	103,000	125	88,100	105										
373	6250	6.74	113,000	150	102,000	135										
388	6500	7.29	122,000	180	113,000	160	83,200	120								
403	6750	7.86	130,000	205	123,000	190	101,000	155								
418	7000	8.45	138,000	240	132,000	225	115,000	185	79,400	130						
448	7500	9.71	153,000	305	148,000	265	136,000	260	117,000	210						
477	8000	11.04	167,000	385	163,000	370	153,000	340	140,000	300	120,000	260				
507	8500	12.48	180,000	470	177,000	460	169,000	430	159,000	400	145,000	350	125,000	305		
536	9000	14.00	193,000	565	191,000	555	184,000	530	175,000	500	166,000	460	152,000	410	133,000	360
567	9500	15.58	206,000	675	204,000	665	198,000	640	191,000	610	183,000	575	172,000	530	159,000	480
596	10000	17.27	218,000	790	217,000	785	211,000	765	205,000	785	199,000	700	191,000	660	180,000	615

Single Inlet

Size "M" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Agains' Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
66	1010	.176	9,430	.325												
79	1200	.249	18,000	.89												
92	1400	.338	23,300	1.60												
105	1600	.441	27,500	2.55	24,500	1.95										
118	1800	.559	32,100	3.75	28,600	3.20	20,100	2.2								
132	2000	.690	35,900	5.2	33,500	4.75	28,800	3.9								
145	2200	.835	40,300	7.	38,000	6.6	34,000	5.9	29,300	4.65						
158	2400	.994			42,400	8.8	39,800	8.2	36,200	7.2	29,300	5.7				
171	2600	1.17			46,900	11.5	44,500	11.0	41,700	9.9	37,900	8.6	31,500	7.1		
184	2800	1.35			50,600	14.5	48,500	13.5	46,600	13.0	43,800	12.0	39,900	10.5	33,500	8.8
197	3000	1.55			54,700	18.0	53,100	17.5	51,300	16.5	49,000	15.5	46,100	14.5	42,200	12.5
210	3200	1.77			58,600	21.5	57,300	21.5	55,600	20.5	53,800	19.5	51,500	18.5	48,600	17
224	3400	2.00					61,300	26	60,000	25	58,400	24.5	56,400	23	54,400	22
237	3600	2.24					65,500	31	64,100	30	62,800	29	61,200	28	59,200	27
250	3800	2.49					69,400	36	68,300	36	67,000	35	65,500	34	63,900	33
263	4000	2.76							72,400	42	71,200	41	69,900	40	68,500	39
276	4200	3.01							76,400	49	75,400	48	74,200	47	73,000	47
290	4400	3.31							80,500	56	79,500	56	78,400	54	77,300	54
303	4600	3.65									83,500	64	82,500	64	81,500	62
316	4800	3.98									87,400	72	86,500	72	85,700	72
329	5000	4.31									91,500	82	90,800	82	89,800	82
345	5250	4.76											95,600	96	94,900	96
362	5500	5.22											101,000	110	99,000	110
378	5750	5.71													105,000	125

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
197	3000	1.55	36,200	11.0												
210	3200	1.77	45,000	15.5	30,300	10.5										
221	3400	2.00	51,500	20.5	42,900	16.5										
237	3600	2.24	57,100	26	50,800	22	40,200	17.5								
250	3800	2.49	62,100	32	57,400	28	50,300	24.5	37,000	18						
263	4000	2.76	67,000	38	63,100	35	58,300	31	49,400	26						
276	4200	3.04	71,500	45	68,300	42	64,500	39	57,900	34	48,800	29				
290	4400	3.34	76,200	54	73,300	50	69,800	47	64,900	43	58,500	38				
303	4600	3.65	80,500	62	77,900	58	74,800	56	71,200	52	66,100	47	48,800	35		
316	4800	3.98	84,900	70	82,300	68	79,500	64	76,500	62	72,500	58	60,000	46		
329	5000	4.31	89,000	80	86,900	78	84,300	76	81,600	72	78,400	68	68,600	58	50,600	43
345	5250	4.76	94,000	94	92,200	94	90,000	88	87,700	86	84,900	82	77,400	72	65,400	60
362	5500	5.22	99,100	110	97,500	105	95,600	105	93,400	100	90,900	98	84,500	88	76,000	76
378	5750	5.71	104,000	125	103,000	125	101,000	120	99,000	120	97,000	115	91,900	105	84,800	94
395	6000	6.21	109,000	140	108,000	140	106,000	140	105,000	135	108,000	135	98,000	125	92,300	115
411	6250	6.74	114,000	160	113,000	160	111,000	160	110,000	155	108,000	150	104,000	145	99,100	135
428	6500	7.29			118,000	180	117,000	180	115,000	175	114,000	175	110,000	165	106,000	155
444	6750	7.86			123,000	205	122,000	200	120,000	200	119,000	195	116,000	190	112,000	180
460	7000	8.45			128,000	225	127,000	225	126,000	225	124,000	220	121,000	215	117,000	205
494	7500	9.71					137,000	280	136,000	275	135,000	275	132,000	270	129,000	260
526	8000	11.04							146,000	340	145,000	335	143,000	330	140,000	325
560	8500	12.48							156,000	405	155,000	405	153,000	400	150,000	395
592	9000	14.00									165,000	480	163,000	480	161,000	470
625	9500	15.58											173,000	565	171,000	560
659	10000	17.27											183,000	660	181,000	655

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
362	5500	5.22	61,500	62												
378	5750	5.71	74,400	82	57,000	64										
395	6000	6.21	81,300	100	72,500	88										
411	6250	6.74	92,800	125	84,000	110										
428	6500	7.29	100,000	145	93,200	130	68,400	98								
414	6750	7.86	107,000	170	101,000	160	83,000	125								
460	7000	8.45	114,000	195	109,000	185	94,200	155	65,400	110						
494	7500	9.71	126,000	250	122,000	240	112,000	215	96,000	175						
526	8000	11.04	137,000	315	134,000	305	126,000	280	115,000	250	98,900	210				
560	8500	12.48	148,000	385	146,000	308	139,000	355	131,000	325	120,000	290	103,000	250		
592	9000	14.00	159,000	465	157,000	455	151,000	435	144,000	410	136,000	380	125,000	335	109,000	295
625	9500	15.58	169,000	555	168,000	545	163,000	525	157,000	500	150,000	470	142,000	435	131,000	305
659	10000	17.27	180,000	650	178,000	645	174,000	630	169,000	605	163,000	575	157,000	545	148,000	505

Single Inlet

Size "Q" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
51	1010	.176	16,200	0.56												
60	1200	.219	31,100	1.55												
70	1400	.338	40,000	2.75												
80	1600	.441	47,200	4.4	38,600	3.3										
90	1800	.559	55,100	6.4	49,000	5.5	34,000	3.75								
100	2000	.690	61,700	8.9	57,500	8.2	49,509	6.7								
111	2200	.835	69,200	12	65,400	11.5	59,900	10.0	50,300	8.0						
121	2400	.994			72,800	15.0	68,400	14.0	62,300	12.5	50,300	9.7				
131	2600	1.17			80,600	19.5	76,400	18.5	71,700	17	65,000	15.0	54,100	12.5		
141	2800	1.35			87,000	24.5	83,400	23.5	80,200	22	75,400	20.5	68,600	18.0	57,500	15
151	3000	1.55			94,000	31	91,200	30	88,100	28	81,200	27	79,200	24.5	72,600	22
161	3200	1.77			101,000	37	98,400	37	95,600	35	92,500	34	88,500	32	83,600	29
171	3400	2.00					105,000	44	103,000	43	100,000	42	96,900	40	93,500	38
181	3600	2.24					113,000	52	110,000	52	108,000	50	105,000	49	102,000	47
191	3800	2.49					119,000	62	117,000	62	115,000	60	113,000	58	110,000	56
201	4000	2.76							124,000	72	122,000	70	120,000	70	118,000	68
211	4200	3.04							131,000	84	130,000	82	128,000	82	125,000	80
221	4400	3.34							138,000	96	137,000	96	135,000	94	133,000	94
231	4600	3.65									144,000	110	142,000	110	140,000	110
241	4800	3.98									150,000	125	149,000	125	147,000	125
251	5000	4.31									157,000	140	156,000	140	154,000	140
264	5250	4.76											164,000	165	163,000	165
276	5500	5.22											173,000	190	172,000	190
289	5750	5.71													180,000	215

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
151	3000	1.55	62,200	19												
161	3200	1.77	77,300	26	52,100	18										
171	3400	2.00	88,400	35	73,600	29										
181	3600	2.24	98,100	44	87,300	38	69,100	30								
191	3800	2.49	107,000	54	98,600	49	86,500	42	63,500	31						
201	4000	2.76	115,000	66	108,000	60	100,000	54	84,900	45						
211	4200	3.04	123,000	78	117,000	72	111,000	66	99,500	58	84,000	50				
221	4400	3.34	131,000	92	126,000	86	120,000	80	112,000	74	101,000	66				
231	4600	3.65	138,000	105	134,000	100	128,000	96	122,000	90	114,000	80	83,800	60		
241	4800	3.98	146,000	120	141,000	115	137,000	110	131,000	105	124,000	98	103,000	80		
251	5000	4.31	153,000	140	149,000	135	145,000	130	140,000	125	135,000	115	118,000	98	86,900	74
264	5250	4.76	162,000	160	158,000	160	155,000	155	151,000	150	146,000	140	133,000	125	112,000	105
276	5500	5.22	170,000	185	167,000	185	164,000	180	160,000	175	156,000	170	145,000	150	131,000	130
289	5750	5.71	179,000	215	176,000	210	174,000	210	170,000	205	167,000	195	158,000	185	146,000	165
302	6000	6.21	188,000	245	185,000	240	183,000	240	180,000	235	176,000	230	169,000	215	159,000	195
314	6250	6.74	196,000	275	194,000	275	192,000	270	189,000	270	186,000	260	179,000	250	170,000	230
327	6500	7.29			202,000	310	200,000	305	198,000	305	195,000	300	189,000	285	181,000	270
339	6750	7.86			211,000	350	209,000	345	207,000	340	204,000	335	199,000	325	192,000	310
352	7000	8.45			220,000	390	218,000	385	216,000	385	214,000	380	208,000	365	202,000	355
377	7500	9.71					235,000	480	233,000	475	231,000	470	227,000	465	222,000	450
402	8000	11.04							250,000	580	248,000	575	245,000	570	241,000	555
427	8500	12.48							268,000	700	266,000	695	263,000	690	258,000	680
452	9000	14.00									283,000	830	280,000	825	277,000	810
478	9500	15.58											298,000	970	294,000	960
503	10000	17.27											314,000	1140	312,000	1125

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
276	5500	5.22	106,000	110												
289	5750	5.71	128,000	140	97,800	110										
302	6000	6.21	145,000	175	124,000	150										
314	6250	6.74	160,000	210	144,000	190										
327	6500	7.29	172,000	250	160,000	225	118,000	165								
339	6750	7.86	184,000	290	174,000	270	143,000	220								
352	7000	8.45	195,000	335	187,000	315	162,000	265	112,000	185						
377	7500	9.71	216,000	435	210,000	415	192,000	370	165,000	300						
402	8000	11.04	236,000	540	230,000	525	216,000	485	198,000	425	170,000	365				
427	8500	12.48	255,000	665	250,000	650	239,000	610	225,000	560	205,000	495	177,000	430		
452	9000	14.00	272,000	800	269,000	785	259,000	750	247,000	705	234,000	655	214,000	580	187,000	510
478	9500	15.58	291,000	950	288,000	940	280,000	905	269,000	860	258,000	810	243,000	745	225,000	680
503	10000	17.27	308,000	1120	306,000	1110	298,000	1080	290,000	1040	280,000	990	269,000	935	254,000	805

Single Inlet **Single Width**

Size "R" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
46	1010	.176	19,800	.68												
55	1200	.249	37,900	1.85												
64	1400	.338	48,800	3.35												
73	1600	.441	57,600	5.3	47,000	4.0										
82	1800	.559	67,200	7.9	59,700	6.7	42,100	4.6								
91	2000	.690	75,300	11.0	70,100	10.0	60,400	8.1								
100	2200	.835	84,400	11.5	79,600	14.0	73,000	12.5	61,400	9.8						
109	2400	.994			88,800	18.5	83,400	17.0	75,900	15.0	61,400	12				
118	2600	1.17			98,300	24	93,200	22.5	87,400	20.5	79,400	18	66,000	15		
127	2800	1.35			106,000	30	102,000	29	97,800	27	91,900	25	83,600	22	70,100	18.5
136	3000	1.55			115,000	37	111,000	36	107,000	35	103,000	33	96,500	30	88,500	27
145	3200	1.77			123,000	45	120,000	45	117,000	43	113,000	41	108,000	39	102,000	36
155	3400	2.00					128,000	54	126,000	52	122,000	50	118,000	49	114,000	46
164	3600	2.21					137,000	64	134,000	64	132,000	62	128,000	60	124,000	56
173	3800	2.49					145,000	76	143,000	74	140,000	74	137,000	72	134,000	70
182	4000	2.76							152,000	88	149,000	86	147,000	84	144,000	82
191	4200	3.04							160,000	100	158,000	100	156,000	100	153,000	98
200	4400	3.34							169,000	120	167,000	115	164,000	115	162,000	115
209	4600	3.65									175,000	135	173,000	130	171,000	130
218	4800	3.98									183,000	155	181,000	150	180,000	150
228	5000	4.31									192,000	175	190,000	170	188,000	170
239	5250	4.76											200,000	200	199,000	200
250	5500	5.22											211,000	230	209,000	230
262	5750	5.71													220,000	265

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
136	3000	1.55	76,000	23												
145	3200	1.77	91,200	32	63,500	22										
155	3400	2.00	108,000	43	89,800	35										
164	3600	2.24	120,000	54	106,000	46	84,200	37								
173	3800	2.49	130,000	66	120,000	60	105,000	50	77,500	38						
182	4000	2.76	140,000	80	132,000	74	122,000	66	104,000	56						
191	4200	3.04	150,000	94	143,000	88	135,000	82	121,000	72	102,000	60				
200	4400	3.34	160,000	110	154,000	105	146,000	98	136,000	90	123,000	80				
209	4600	3.65	169,000	130	163,000	125	157,000	115	149,000	110	139,000	98	102,000	72		
218	4800	3.98	178,000	150	173,000	140	167,000	135	160,000	130	152,000	120	126,000	96		
228	5000	4.31	186,000	170	182,000	165	177,000	160	171,000	150	164,000	140	144,000	120	106,000	90
239	5250	4.76	197,000	195	193,000	195	189,000	185	184,000	180	178,000	170	162,000	150	137,000	125
250	5500	5.22	208,000	225	204,000	225	200,000	220	196,000	210	191,000	205	177,000	185	159,000	160
262	5750	5.71	218,000	260	215,000	260	212,000	255	208,000	245	203,000	240	193,000	225	178,000	200
272	6000	6.21	229,000	295	226,000	295	223,000	290	219,000	285	215,000	280	206,000	260	194,000	240
284	6250	6.74	239,000	340	237,000	335	234,000	330	230,000	325	227,000	320	218,000	305	208,000	280
296	6500	7.29			247,000	380	244,000	375	241,000	370	238,000	365	230,000	345	221,000	330
307	6750	7.86			258,000	425	255,000	420	252,000	415	249,000	410	242,000	395	234,000	380
318	7000	8.45			268,000	475	266,000	470	263,000	465	261,000	460	254,000	445	246,000	430
341	7500	9.71					286,000	585	284,000	580	282,000	575	277,000	565	270,000	550
364	8000	11.04							306,000	710	303,000	700	299,000	695	294,000	680
386	8500	12.48							326,000	850	324,000	845	320,000	840	315,000	825
409	9000	14.00									345,000	1010	342,000	1000	338,000	990
432	9500	15.58											363,000	1190	359,000	1170
455	10000	17.27											383,000	1390	380,000	1370

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
250	5500	5.22	129,000	130												
262	5750	5.71	156,000	170	119,000	135										
272	6000	6.21	177,000	215	152,000	185										
284	6250	6.74	194,000	260	176,000	230										
296	6500	7.29	210,000	305	195,000	275	143,000	205								
307	6750	7.86	224,000	355	212,000	330	174,000	265								
318	7000	8.45	238,000	410	228,000	385	197,000	320	137,000	230						
341	7500	9.71	263,000	530	256,000	505	234,000	450	201,000	365						
364	8000	11.04	287,000	660	280,000	640	264,000	590	242,000	520	207,000	445				
386	8500	12.48	310,000	810	305,000	790	291,000	740	274,000	685	250,000	605	216,000	525		
409	9000	14.00	332,000	975	328,000	955	316,000	915	302,000	855	286,000	795	261,000	705	228,000	620
432	9500	15.58	355,000	1160	351,000	1150	341,000	1110	328,000	1050	315,000	990	297,000	910	274,000	825
455	10000	17.27	376,000	1360	373,000	1350	364,000	1320	353,000	1260	342,000	1200	328,000	1140	310,000	1060

Single Inlet

Size "S" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
42	1010	.176	23,700	0.82												
50	1200	.249	45,500	2.25												
58	1400	.338	58,500	4.05												
66	1600	.441	69,000	6.4	56,400	4.85										
75	1800	.559	80,500	9.4	71,600	8.1	50,500	5.5								
83	2000	.690	90,100	13.0	81,000	12.0	72,400	9.7								
91	2200	.835	101,000	17.5	95,500	16.5	87,500	14.5	73,500	11.5						
100	2400	.991			106,000	22	99,900	20.5	91,000	18	73,500	14.0				
108	2600	1.17			118,000	29	112,000	27	105,000	25	95,000	21.5	79,000	18		
116	2800	1.35			127,000	36	122,000	34	117,000	32	110,000	30	100,000	26	84,000	22
125	3000	1.55			137,000	45	133,000	43	129,000	42	123,000	39	116,000	36	106,000	32
133	3200	1.77			147,000	51	144,000	54	140,000	52	135,000	49	129,000	46	122,000	43
141	3400	2.00					154,000	64	151,000	64	147,000	60	142,000	58	137,000	56
149	3600	2.24					165,000	76	161,000	76	158,000	74	154,000	72	149,000	66
158	3800	2.49					174,000	90	172,000	90	168,000	88	165,000	86	160,000	82
166	4000	2.76							182,000	105	179,000	105	176,000	100	172,000	98
174	4200	3.04							192,000	120	189,000	120	186,000	120	183,000	115
183	4400	3.34							202,000	140	200,000	140	197,000	140	194,000	135
191	4600	3.65									210,000	160	207,000	160	205,000	155
199	4800	3.98									219,000	185	217,000	180	215,000	180
208	5000	4.31									230,000	205	228,000	205	226,000	205
218	5250	4.76											240,000	240	238,000	240
228	5500	5.22											253,000	280	251,000	275
239	5750	5.71													263,000	315

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
125	3000	1.55	91,000	27												
133	3200	1.77	113,000	39	76,100	26										
141	3400	2.00	129,000	52	108,000	42										
149	3600	2.24	143,000	64	128,000	56	101,000	41								
158	3800	2.49	156,000	80	144,000	72	126,000	60	92,800	46						
166	4000	2.76	168,000	96	158,000	88	146,000	78	124,000	66						
174	4200	3.04	180,000	115	172,000	105	162,000	98	145,000	86	128,000	72				
183	4400	3.34	192,000	135	184,000	125	175,000	120	163,000	105	147,000	96				
191	4600	3.65	202,000	155	196,000	150	188,000	140	179,000	130	166,000	120	123,000	88		
199	4800	3.98	213,000	180	207,000	170	200,000	165	192,000	155	182,000	145	151,000	115		
208	5000	4.31	223,000	205	218,000	195	212,000	190	205,000	180	197,000	170	172,000	145	127,000	105
218	5250	4.76	236,000	235	232,000	235	226,000	225	220,000	215	213,000	205	194,000	180	164,000	150
228	5500	5.22	249,000	270	245,000	270	240,000	265	234,000	255	228,000	245	212,000	220	191,000	195
239	5750	5.71	261,000	315	258,000	310	254,000	305	249,000	295	243,000	290	231,000	265	213,000	240
249	6000	6.21	274,000	355	271,000	355	267,000	350	263,000	340	258,000	335	246,000	315	232,000	290
260	6250	6.74	287,000	405	284,000	400	280,000	395	276,000	390	272,000	380	262,000	365	249,000	310
270	6500	7.29			296,000	455	293,000	445	289,000	445	286,000	435	276,000	415	265,000	395
280	6750	7.86			309,000	510	306,000	505	302,000	500	298,000	495	290,000	475	280,000	455
291	7000	8.45			321,000	570	318,000	565	315,000	560	312,000	555	304,000	535	295,000	515
312	7500	9.71					343,000	700	341,000	695	338,000	685	332,000	680	324,000	655
332	8000	11.04							366,000	850	363,000	840	358,000	830	352,000	810
353	8500	12.48							391,000	1020	389,000	1020	384,000	1010	378,000	990
374	9000	14.00									413,000	1210	409,000	1200	405,000	1190
394	9500	15.58											435,000	1420	430,000	1400
415	10000	17.27											459,000	1660	456,000	1640

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
228	5500	5.22	154,000	155												
239	5750	5.71	187,000	205	143,000	160										
240	6000	6.21	212,000	255	182,000	220										
260	6250	6.74	233,000	310	211,000	275										
270	6500	7.29	252,000	370	234,000	330	172,000	245								
280	6750	7.86	269,000	425	254,000	395	208,000	320								
291	7000	8.45	285,000	490	273,000	460	237,000	385	164,000	275						
312	7500	9.71	315,000	635	306,000	605	281,000	540	241,000	440						
332	8000	11.04	344,000	790	336,000	765	316,000	705	290,000	625	248,000	535				
353	8500	12.48	372,000	970	366,000	950	349,000	890	328,000	820	300,000	730	259,000	630		
374	9000	14.00	398,000	1170	394,000	1150	379,000	1100	361,000	1030	342,000	955	313,000	845	274,000	745
394	9500	15.58	425,000	1390	420,000	1370	408,000	1320	393,000	1260	378,000	1190	356,000	1090	328,000	990
415	10000	17.27	451,000	1630	448,000	1620	436,000	1580	423,000	1520	410,000	1450	393,000	1370	372,000	1270

Single Inlet

Size "T" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure ⅛" Water .0722 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅞" Water .506 ozs. per sq. inch	H. P.
39	1010	.176	28,000	0.97												
46	1200	.249	53,600	2.65												
53	1400	.338	69,000	4.8												
61	1600	.441	81,500	7.6	66,500	5.7										
69	1800	.559	95,100	11.0	84,600	9.6	59,600	6.5								
76	2000	.690	107,000	15.5	99,400	14.0	85,500	11.5								
84	2200	.835	120,000	21	113,000	19.5	103,000	17.5	86,000	14						
92	2400	.991			126,000	26	118,000	24	108,000	24	86,800	17				
99	2600	1.17			139,000	34	132,000	32	124,000	29	112,000	26	93,400	21		
107	2800	1.35			150,000	42	144,000	41	138,000	38	130,000	35	118,000	31	99,400	26
115	3000	1.55			162,000	52	157,000	52	152,000	49	145,000	46	137,000	42	125,000	38
122	3200	1.77			171,000	64	170,000	64	165,000	60	160,000	58	153,000	54	144,000	50
130	3400	2.00					182,000	76	178,000	71	173,000	72	167,000	68	161,000	66
138	3600	2.24					194,000	90	190,000	90	186,000	86	181,000	84	176,000	80
145	3800	2.49					206,000	105	203,000	105	199,000	105	194,000	100	190,000	98
153	4000	2.76							215,000	125	211,000	120	208,000	120	203,000	115
160	4200	3.04							227,000	145	224,000	145	220,000	140	217,000	140
168	4400	3.34							239,000	170	236,000	165	233,000	165	229,000	160
176	4600	3.65									248,000	190	245,000	185	242,000	185
183	4800	3.98									259,000	215	257,000	215	254,000	210
191	5000	4.31									271,000	245	269,000	245	266,000	240
201	5250	4.76											284,000	285	288,000	280
210	5500	5.22											299,000	330	296,000	325
220	5750	5.71													311,000	370

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
115	3000	1.55	108,000	32												
122	3200	1.77	134,000	46	90,000	31										
130	3400	2.00	153,000	60	127,000	49										
138	3600	2.24	170,000	76	151,000	66	119,000	52								
145	3800	2.19	184,000	94	170,000	84	149,000	72	110,000	54						
153	4000	2.76	199,000	115	187,000	105	173,000	92	147,000	78						
160	4200	3.04	212,000	135	203,000	125	192,000	115	172,000	100	145,000	86				
168	4400	3.34	226,000	155	217,000	150	207,000	140	193,000	125	174,000	110				
176	4600	3.65	239,000	185	231,000	175	222,000	165	211,000	155	196,000	140	145,000	105		
183	4800	3.98	252,000	210	244,000	200	236,000	195	227,000	180	215,000	170	178,000	135		
191	5000	4.31	264,000	240	258,000	235	250,000	225	242,000	215	232,000	200	204,000	170	150,000	125
201	5250	4.76	279,000	280	274,000	275	267,000	235	260,000	255	252,000	245	230,000	215	194,000	180
210	5500	5.22	294,000	320	289,000	315	284,000	310	277,000	300	270,000	290	251,000	260	228,000	230
220	5750	5.71	309,000	370	305,000	365	300,000	360	294,000	350	288,000	340	273,000	315	252,000	280
229	6000	6.21	324,000	420	320,000	415	316,000	415	310,000	405	305,000	395	291,000	370	274,000	340
239	6250	6.74	339,000	480	335,000	475	331,000	465	326,000	460	321,000	450	309,000	430	294,000	400
248	6500	7.20			350,000	535	346,000	530	342,000	525	337,000	515	326,000	490	313,000	465
258	6750	7.86			365,000	600	361,000	595	357,000	590	353,000	580	343,000	560	331,000	535
268	7000	8.45			379,000	670	376,000	665	372,000	660	369,000	655	359,000	635	349,000	610
286	7500	9.71					405,000	825	402,000	820	399,000	810	392,000	800	383,000	775
306	8000	11.01							433,000	1010	429,000	995	424,000	980	415,000	960
325	8500	12.48							462,000	1210	460,000	1200	454,000	1190	446,000	1170
344	9000	14.00									488,000	1430	484,000	1420	478,000	1400
363	9500	15.58											514,000	1680	508,000	1660
382	10000	17.27											542,000	1960	539,000	1940

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
210	5500	5.22	182,000	185												
220	5750	5.71	221,000	245	169,000	190										
229	6000	6.21	250,000	300	215,000	280										
239	6250	6.74	275,000	365	249,000	325										
248	6500	7.29	298,000	435	277,000	390	203,000	290								
258	6750	7.86	318,000	505	301,000	470	246,000	375								
268	7000	8.45	337,000	580	323,000	545	280,000	455	194,000	320						
286	7500	9.71	372,000	750	362,000	715	332,000	635	285,000	520						
306	8000	11.04	407,000	935	398,000	905	374,000	835	342,000	735	294,000	630				
325	8500	12.48	440,000	1150	432,000	1120	412,000	1050	388,000	970	355,000	860	306,000	740		
344	9000	14.00	470,000	1380	465,000	1350	448,000	1300	427,000	1210	405,000	1130	370,000	1000	323,000	880
363	9500	15.58	503,000	1640	497,000	1620	483,000	1560	465,000	1490	446,000	1400	420,000	1200	388,000	1170
382	10000	17.27	533,000	1930	520,000	1910	515,000	1860	500,000	1790	484,000	1710	465,000	1610	439,000	1500

Single Inlet

Size "U" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
36	1010	.176	32,800	1.15												
42	1200	.249	62,000	3.1												
50	1400	.338	81,000	5.6												
57	1600	.411	95,500	8.7	78,000	6.7										
64	1800	.559	111,000	13.0	99,100	11.0	69,900	7.6								
71	2000	.690	125,000	18.0	116,000	16.5	100,000	13.5								
78	2200	.835	140,000	24.5	132,000	23	121,000	20.5	102,000	16						
85	2400	.994			147,000	31	138,000	28	126,000	25	102,000	19.5				
92	2600	1.17			163,000	39	155,000	38	145,000	34	132,000	30	109,000	25		
99	2800	1.35			176,000	50	169,000	48	162,000	45	152,000	41	139,000	36	116,000	31
106	3000	1.55			190,000	62	184,000	60	178,000	58	170,000	54	160,000	50	147,000	44
113	3200	1.77			203,000	76	199,000	74	193,000	72	187,000	68	179,000	64	169,000	60
120	3400	2.00					213,000	90	209,000	88	203,000	84	196,000	80	189,000	76
128	3600	2.24					228,000	105	223,000	105	218,000	100	212,000	98	206,000	94
135	3800	2.49					241,000	125	237,000	125	232,000	125	228,000	120	222,000	115
142	4000	2.76							252,000	145	247,000	145	243,000	140	238,000	135
149	4200	3.04							266,000	170	262,000	165	258,000	165	254,000	160
156	4400	3.34							280,000	195	276,000	195	273,000	190	269,000	190
163	4600	3.65									290,000	225	287,000	220	283,000	220
170	4800	3.98									304,000	255	301,000	250	298,000	250
177	5000	4.31									318,000	285	315,000	285	312,000	285
186	5250	4.76											332,000	335	330,000	330
195	5500	5.22											350,000	385	347,000	380
204	5750	5.71													365,000	435

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
106	3000	1.55	126,000	38												
113	3200	1.77	156,000	54	105,000	37										
120	3400	2.00	179,000	70	149,000	58										
128	3600	2.24	198,000	90	177,000	76	140,000	60								
135	3800	2.49	216,000	110	200,000	98	175,000	84	120,000	62						
142	4000	2.76	232,000	135	219,000	120	202,000	110	172,000	92						
149	4200	3.04	249,000	155	237,000	145	224,000	135	201,000	120	170,000	100				
156	4400	3.34	265,000	185	254,000	175	242,000	165	226,000	150	204,000	130				
163	4600	3.65	280,000	215	271,000	205	260,000	195	247,000	180	230,000	165	170,000	120		
170	4800	3.98	295,000	245	286,000	235	276,000	225	266,000	215	252,000	200	209,000	160		
177	5000	4.31	309,000	280	302,000	275	293,000	260	284,000	250	272,000	235	239,000	200	176,000	150
186	5250	4.76	327,000	325	320,000	325	313,000	310	305,000	300	295,000	285	269,000	250	227,000	210
195	5500	5.22	344,000	375	339,000	370	332,000	365	325,000	350	316,000	340	294,000	305	264,000	265
204	5750	5.71	362,000	435	357,000	430	351,000	420	344,000	410	337,000	400	319,000	370	295,000	330
213	6000	6.21	380,000	490	375,000	490	369,000	485	364,000	470	357,000	460	341,000	435	321,000	400
222	6250	6.74	397,000	560	393,000	555	387,000	545	382,000	540	376,000	530	362,000	505	345,000	470
230	6500	7.29			410,000	630	405,000	620	400,000	615	395,000	605	382,000	575	367,000	545
239	6750	7.86			427,000	705	423,000	695	418,000	690	413,000	680	402,000	660	388,000	625
248	7000	8.45			444,000	785	440,000	780	436,000	775	432,000	765	420,000	740	409,000	715
266	7500	9.71					475,000	970	471,000	960	468,000	950	460,000	940	449,000	910
283	8000	11.04							506,000	1180	503,000	1160	496,000	1150	487,000	1120
301	8500	12.48							542,000	1410	539,000	1405	531,000	1390	523,000	1370
319	9000	14.00									572,000	1670	566,000	1660	560,000	1640
336	9500	15.58											601,000	1970	595,000	1940
354	10000	17.27											635,000	2300	630,000	2280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
195	5500	5.22	214,000	220												
204	5750	5.71	250,000	285	198,000	220										
213	6000	6.21	293,000	355	252,000	305										
222	6250	6.74	322,000	430	292,000	380										
230	6500	7.29	349,000	510	324,000	460	238,000	340								
239	6750	7.86	372,000	590	352,000	550	288,000	440								
248	7000	8.45	395,000	680	378,000	640	328,000	535	227,000	380						
266	7500	9.71	436,000	875	424,000	840	389,000	745	334,000	605						
283	8000	11.04	477,000	1100	465,000	1060	438,000	975	400,000	865	344,000	735				
301	8500	12.48	515,000	1340	506,000	1310	483,000	1230	455,000	1140	415,000	1010	358,000	870		
319	9000	14.00	551,000	1620	545,000	1590	525,000	1520	500,000	1420	474,000	1320	433,000	1170	379,000	1030
328	9500	15.58	589,000	1930	582,000	1900	565,000	1830	545,000	1740	523,000	1640	492,000	1510	455,000	1370
354	10000	17.27	625,000	2200	619,000	2240	604,000	2180	586,000	2100	567,000	2000	545,000	1890	515,000	1750

Single Inlet

Size "V" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
33	1010	.176	37,700	1.30												
39	1200	.249	72,400	3.55												
46	1400	.338	93,200	6 4												
53	1600	441	110,000	10	89,800	7.7										
59	1800	.559	128,000	15	114,000	13	80,500	8 8								
66	2000	.690	144,000	21	134,000	19	115,000	15.5								
72	2200	.835	161,000	28	152,000	27	140,000	23.5	117,000	18 5						
79	2400	.994			170,000	35	159,000	33	145,000	27	117,000	22 5				
86	2600	1 17			188,000	45	178,000	43	167,000	40	151,000	35	126,000	29		
92	2800	1 35			203,000	58	194,000	54	187,000	52	175,000	48	160,000	42	134,000	35
99	3000	1.55			219,000	72	212,000	70	205,000	66	196,000	62	184,000	58	169,000	50
105	3200	1 77			234,000	86	229,000	86	223,000	82	215,000	78	206,000	74	194,000	68
112	3400	2 00					245,000	105	240,000	100	234,000	98	226,000	94	218,000	88
118	3600	2 24					262,000	120	256,000	120	251,000	115	245,000	115	237,000	110
125	3800	2 49					278,000	145	273,000	145	268,000	140	262,000	135	256,000	130
132	4000	2 76							289,000	170	285,000	165	280,000	160	274,000	160
138	4200	3 04							306,000	195	302,000	195	297,000	190	292,000	185
145	4400	3 34							322,000	225	318,000	225	314,000	220	309,000	215
151	4600	3 65									334,000	255	330,000	250	326,000	250
158	4800	3 98									350,000	290	346,000	290	343,000	285
164	5000	4 31									366,000	330	363,000	330	359,000	325
173	5250	4.76											382,000	385	379,000	380
181	5500	5 22											402,000	440	400,000	435
189	5750	5 71													420,000	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
99	3000	1 55	145,000	44												
105	3200	1 77	180,000	62	121,000	42										
112	3400	2 00	206,000	82	172,000	66										
118	3600	2 24	228,000	105	203,000	88	161,000	70								
125	3800	2 49	248,000	125	230,000	115	201,000	98	148,000	72						
132	4000	2 76	268,000	155	252,000	140	233,000	125	198,000	105						
138	4200	3 04	286,000	180	273,000	170	258,000	155	232,000	185	196,000	115				
145	4400	3 34	305,000	210	293,000	200	279,000	190	260,000	170	234,000	150				
151	4600	3 65	322,000	245	312,000	235	299,000	225	285,000	210	265,000	190	195,000	140		
158	4800	3 98	340,000	285	329,000	270	318,000	260	306,000	245	290,000	230	240,000	185		
164	5000	4 31	356,000	325	348,000	315	338,000	300	326,000	285	314,000	270	275,000	230	202,000	170
173	5250	4 76	376,000	375	369,000	375	360,000	355	351,000	345	340,000	330	310,000	290	261,000	240
181	5500	5 22	396,000	435	390,000	430	383,000	420	374,000	405	364,000	390	338,000	355	304,000	305
189	5750	5 71	416,000	500	411,000	490	405,000	485	396,000	470	388,000	460	367,000	425	339,000	380
197	6000	6 21	437,000	565	431,000	565	425,000	555	419,000	545	410,000	530	392,000	500	369,000	460
206	6250	6.74	457,000	615	452,000	640	445,000	630	440,000	620	433,000	610	416,000	580	396,000	540
214	6500	7 29			471,000	725	467,000	710	460,000	705	455,000	695	439,000	660	422,000	630
222	6750	7 86			492,000	810	487,000	800	481,000	795	475,000	785	462,000	755	446,000	720
230	7000	8.45			511,000	905	507,000	900	503,000	890	497,000	880	485,000	855	470,000	825
247	7500	9 71					547,000	1120	543,000	1110	539,000	1090	529,000	1080	516,000	1050
263	8000	11.04							583,000	1360	579,000	1340	571,000	1320	560,000	1290
280	8500	12 48							624,000	1620	620,000	1620	611,000	1610	601,000	1580
296	9000	14.00									659,000	1930	652,000	1920	645,000	1890
312	9500	15.58											692,000	2260	685,000	2240
329	10000	17.27											731,000	2650	725,000	2620

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
181	5500	5.22	246,000	250												
189	5750	5 71	298,000	330	228,000	255										
197	6000	6 21	337,000	410	290,000	350										
206	6250	6 74	371,000	490	336,000	435										
214	6500	7 29	401,000	585	373,000	530	274,000	390								
222	6750	7 86	429,000	680	405,000	630	332,000	505								
230	7000	8 45	454,000	785	435,000	735	377,000	615	262,000	435						
247	7500	9 71	502,000	1010	487,000	965	447,000	860	384,000	700						
263	8000	11 04	549,000	1260	535,000	1220	504,000	1130	461,000	995	396,000	850				
280	8500	12 48	593,000	1540	582,000	1510	555,000	1420	523,000	1310	478,000	1160	412,000	1000		
296	9000	14.00	634,000	1860	627,000	1820	603,000	1750	576,000	1640	545,000	1520	498,000	1350	436,000	1190
312	9500	15 58	678,000	2220	670,000	2190	650,000	2110	627,000	2010	601,000	1890	567,000	1740	524,000	1580
329	10000	17 27	718,000	2600	713,000	2580	695,000	2510	675,000	2410	653,000	2300	627,000	2180	592,000	2020

Single Inlet **Size "W" Supervane Fan—Design 1** **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
30	1010	.176	45,900	1.60												
36	1200	.219	88,000	4.35												
42	1400	.338	113,000	7.8												
48	1600	.441	134,000	12.5	109,000	9.4										
54	1800	.559	156,000	18.5	139,000	15.5	97,900	10.5								
60	2000	.690	175,000	25	163,000	23	140,000	19								
66	2200	.835	196,000	34	185,000	32	170,000	29								
72	2400	.994			206,000	43	194,000	40	143,000	23						
78	2600	1.17			228,000	58	217,000	52	176,000	35	143,000	28				
84	2800	1.35			247,000	70	236,000	66	203,000	48	184,000	42	153,000	35		
90	3000	1.55			266,000	86	258,000	84	227,000	64	214,000	58	194,000	52	163,000	43
96	3200	1.77			285,000	105	279,000	105	250,000	80	239,000	76	224,000	70	206,000	62
102	3400	2.00					299,000	125	271,000	100	262,000	96	251,000	90	237,000	84
107	3600	2.24					319,000	150	292,000	120	284,000	120	274,000	115	265,000	105
113	3800	2.49					338,000	175	312,000	145	306,000	145	298,000	140	288,000	130
119	4000	2.76							332,000	175	326,000	170	319,000	165	311,000	160
125	4200	3.01							352,000	205	347,000	200	340,000	195	334,000	190
131	4400	3.31							372,000	235	367,000	235	361,000	230	356,000	225
137	4600	3.65							392,000	275	387,000	270	382,000	270	376,000	265
143	4800	3.98									406,000	315	401,000	305	397,000	305
149	5000	4.31									425,000	355	421,000	350	418,000	350
157	5250	4.76									445,000	400	442,000	400	437,000	395
164	5500	5.22											465,000	465	462,000	465
172	5750	5.71											490,000	540	486,000	530
															511,000	610

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
90	3000	1.55	176,000	54												
96	3200	1.77	219,000	74	148,000	52										
102	3400	2.00	250,000	100	209,000	80										
107	3600	2.24	278,000	125	247,000	105	196,000	86								
113	3800	2.49	302,000	135	280,000	140	245,000	120	180,000	88						
119	4000	2.76	326,000	185	307,000	170	284,000	155	240,000	130						
125	4200	3.04	348,000	220	333,000	205	314,000	190	282,000	165	238,000	140				
131	4400	3.34	371,000	260	357,000	245	340,000	230	316,000	210	285,000	185				
137	4600	3.65	392,000	300	379,000	285	364,000	270	347,000	255	322,000	230	238,000	170		
143	4800	3.98	414,000	345	400,000	330	387,000	315	373,000	300	353,000	280	292,000	225		
149	5000	4.31	433,000	395	423,000	380	411,000	365	397,000	350	382,000	330	334,000	280	246,000	210
157	5250	4.76	458,000	460	449,000	455	438,000	435	427,000	420	414,000	400	377,000	350	318,000	295
164	5500	5.22	482,000	530	474,000	520	466,000	510	455,000	495	443,000	475	412,000	430	370,000	375
172	5750	5.71	507,000	610	500,000	600	402,000	590	482,000	575	472,000	560	447,000	520	413,000	460
179	6000	6.21	531,000	690	525,000	685	518,000	675	510,000	660	500,000	645	478,000	605	450,000	560
187	6250	6.74	550,000	785	550,000	780	542,000	765	536,000	760	527,000	740	507,000	705	483,000	655
194	6500	7.29			574,000	880	568,000	865	561,000	860	554,000	845	535,000	805	514,000	765
202	6750	7.86			598,000	990	592,000	975	586,000	965	579,000	955	563,000	920	544,000	880
209	7000	8.45			622,000	1100	618,000	1090	611,000	1090	605,000	1070	590,000	1040	572,000	1000
224	7500	9.71					665,000	1360	660,000	1350	655,000	1330	614,000	1310	628,000	1270
239	8000	11.04							710,000	1650	704,000	1630	695,000	1610	683,000	1580
254	8500	12.48							759,000	1980	755,000	1970	745,000	1950	733,000	1920
269	9000	14.00									801,000	2340	793,000	2330	785,000	2300
284	9500	15.58											841,000	2760	832,000	2720
299	10000	17.27											890,000	3220	884,000	3190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
164	5500	5.22	299,000	305												
172	5750	5.71	363,000	400	277,000	310										
179	6000	6.21	411,000	495	353,000	425										
187	6250	6.74	452,000	600	409,000	530										
194	6500	7.29	489,000	715	454,000	645	333,000	475								
202	6750	7.86	522,000	830	494,000	770	404,000	615								
209	7000	8.45	554,000	955	530,000	895	459,000	750	318,000	530						
224	7500	9.71	611,000	1230	594,000	1180	545,000	1050	468,000	850						
239	8000	11.04	668,000	1530	652,000	1490	614,000	1370	561,000	1210	481,000	1030				
254	8500	12.48	722,000	1880	700,000	1840	676,000	1730	637,000	1590	582,000	1410	502,000	1220		
269	9000	14.00	772,000	2270	763,000	2220	735,000	2130	701,000	1990	664,000	1850	606,000	1640	531,000	1450
284	9500	15.58	824,000	2700	815,000	2660	791,000	2570	763,000	2440	733,000	2300	690,000	2120	637,000	1920
299	10000	17.27	875,000	3170	868,000	3140	844,000	3060	820,000	2940	794,000	2800	763,000	2650	721,000	2460

Single Inlet

Size "X" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
28	1010	.176	54,900	1.9												
33	1200	.249	105,000	5.2												
38	1400	.338	136,000	9.4												
44	1600	.441	160,000	15	131,000	11										
49	1800	.559	187,000	22	166,000	19	117,000	13								
55	2000	.690	209,000	30	195,000	28	168,000	22								
60	2200	.835	235,000	41	222,000	39	203,000	34	171,000	27						
65	2400	.994			247,000	52	232,000	48	211,000	42	171,000	33				
71	2600	1.17			273,000	66	259,000	64	243,000	58	220,000	50	183,000	42		
76	2800	1.35			295,000	84	283,000	80	272,000	76	256,000	70	232,000	62	195,000	52
82	3000	1.55			319,000	105	309,000	100	299,000	96	286,000	90	268,000	84	240,000	74
87	3200	1.77			341,000	125	334,000	125	324,000	120	313,000	115	300,000	110	283,000	100
93	3400	2.00					357,000	150	350,000	145	340,000	140	328,000	135	317,000	130
98	3600	2.24					382,000	180	373,000	175	366,000	170	356,000	165	345,000	160
104	3800	2.49					404,000	210	398,000	210	390,000	205	382,000	200	372,000	190
109	4000	2.76							421,000	245	415,000	240	407,000	235	399,000	230
115	4200	3.04							445,000	285	440,000	280	432,000	275	425,000	270
120	4400	3.34							469,000	330	463,000	325	457,000	320	450,000	315
125	4600	3.65									486,000	375	480,000	370	474,000	365
131	4800	3.98									509,000	425	504,000	420	500,000	415
136	5000	4.31									532,000	480	529,000	480	523,000	475
143	5250	4.76											557,000	560	552,000	555
150	5500	5.22											586,000	645	582,000	635
157	5750	5.71													611,000	730

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
82	3000	1.55	211,000	64												
87	3200	1.77	262,000	90	177,000	62										
93	3400	2.00	300,000	120	250,000	96										
98	3600	2.24	332,000	150	296,000	130	234,000	100								
104	3800	2.49	362,000	185	334,000	165	293,000	140	217,000	105						
109	4000	2.76	390,000	220	367,000	205	339,000	185	288,000	155						
115	4200	3.04	417,000	260	398,000	245	376,000	225	337,000	200	285,000	170				
120	4400	3.34	444,000	310	427,000	295	406,000	275	378,000	250	341,000	220				
125	4600	3.65	469,000	360	453,000	345	435,000	325	415,000	300	385,000	275	284,000	205		
131	4800	3.98	495,000	415	479,000	395	463,000	380	445,000	360	422,000	335	350,000	270		
136	5000	4.31	518,000	470	508,000	455	491,000	440	475,000	420	456,000	395	400,000	335	294,000	250
143	5250	4.76	548,000	550	537,000	545	524,000	520	511,000	500	495,000	480	451,000	420	381,000	350
150	5500	5.22	578,000	635	568,000	625	557,000	610	544,000	590	530,000	570	492,000	515	443,000	450
157	5750	5.71	606,000	730	598,000	715	589,000	705	577,000	690	565,000	665	535,000	620	494,000	555
164	6000	6.21	636,000	825	628,000	820	619,000	810	610,000	790	598,000	775	571,000	725	538,000	670
171	6250	6.74	665,000	940	658,000	935	649,000	920	641,000	905	630,000	885	606,000	840	578,000	785
177	6500	7.29			686,000	1050	680,000	1040	671,000	1030	662,000	1010	640,000	960	615,000	915
184	6750	7.86			716,000	1180	709,000	1170	701,000	1150	692,000	1140	674,000	1100	650,000	1050
191	7000	8.45			745,000	1320	738,000	1310	731,000	1300	725,000	1280	705,000	1240	684,000	1200
205	7500	9.71					796,000	1620	790,000	1610	784,000	1590	770,000	1570	752,000	1530
218	8000	11.04							850,000	1980	842,000	1950	831,000	1930	816,000	1890
232	8500	12.48							908,000	2370	902,000	2360	890,000	2340	876,000	2300
246	9000	14.00									958,000	2810	949,000	2790	938,000	2750
259	9500	15.58											1,010,000	3300	998,000	3260
273	10000	17.27											1,070,000	3860	1,080,000	3810

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
150	5500	5.22	358,000	365												
157	5750	5.71	431,000	480	332,000	370										
164	6000	6.21	491,000	595	422,000	510										
171	6250	6.74	541,000	720	489,000	640										
177	6500	7.29	585,000	855	543,000	770	398,000	570								
184	6750	7.86	624,000	990	590,000	920	483,000	740								
191	7000	8.45	662,000	1140	634,000	1070	549,000	895	381,000	635						
205	7500	9.71	731,000	1470	710,000	1410	651,000	1250	560,000	1020						
218	8000	11.04	799,000	1840	780,000	1780	734,000	1640	672,000	1450	576,000	1240				
232	8500	12.48	863,000	2250	848,000	2200	809,000	2070	762,000	1900	606,000	1690	601,000	1460		
246	9000	14.00	924,000	2710	913,000	2660	879,000	2550	839,000	2380	794,000	2220	726,000	1960	635,000	1780
259	9500	15.58	986,000	3230	975,000	3190	947,000	3070	913,000	2920	876,000	2750	826,000	2540	762,000	2300
273	10000	17.27	1,050,000	3790	1,040,000	3750	1,010,000	3660	981,000	3520	950,000	3350	913,000	3170	862,000	2940

Single Inlet **Size "Y" Supervane Fan—Design 1** **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 1/4" Water .145 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 3/8" Water .217 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 1/2" Water .289 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 5/8" Water .361 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 3/4" Water .434 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 7/8" Water .506 ozs. per sq. inch Volume C.F.M.	H.P.
25	1010	.176	64,700	2.2												
30	1200	.249	123,000	6.1												
35	1400	.338	160,000	11.0												
40	1600	.441	189,000	17.5	154,000	13										
45	1800	.559	220,000	26	196,000	22	138,000	15								
50	2000	.690	246,000	36	230,000	33	198,000	27								
55	2200	.835	276,000	48	261,000	45	230,000	40	201,000	32						
60	2400	.991			291,000	60	273,000	56	249,000	49	201,000	39				
65	2600	1.17			322,000	78	305,000	74	286,000	68	260,000	60	216,000	49		
70	2800	1.35			347,000	98	333,000	94	320,000	88	301,000	82	274,000	72	230,000	60
75	3000	1.55			375,000	120	364,000	120	352,000	115	336,000	105	316,000	98	290,000	88
80	3200	1.77			402,000	150	393,000	145	382,000	140	369,000	135	353,000	125	334,000	115
85	3400	2.00					420,000	175	411,000	170	400,000	165	387,000	160	373,000	150
90	3600	2.24					450,000	210	440,000	210	431,000	200	420,000	195	406,000	185
95	3800	2.49					476,000	250	469,000	245	459,000	240	450,000	235	439,000	225
101	4000	2.76							496,000	290	488,000	285	480,000	280	470,000	270
106	4200	3.04							524,000	335	517,000	330	509,000	325	500,000	320
111	4400	3.34							552,000	385	545,000	385	538,000	375	530,000	370
116	4600	3.65									573,000	440	566,000	435	559,000	430
121	4800	3.98									599,000	500	594,000	495	588,000	490
126	5000	4.31									627,000	565	623,000	565	616,000	560
132	5250	4.76											656,000	655	650,000	655
138	5500	5.22											690,000	760	685,000	750
145	5750	5.71													720,000	860

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
75	3000	1.55	249,000	74												
80	3200	1.77	308,000	105	208,000	72										
85	3400	2.00	353,000	140	294,000	115										
90	3600	2.24	392,000	175	348,000	150	276,000	120								
95	3800	2.49	426,000	215	394,000	195	345,000	165	254,000	125						
101	4000	2.76	459,000	260	433,000	240	400,000	215	339,000	180						
106	4200	3.04	491,000	310	469,000	290	443,000	270	397,000	235	335,000	200				
111	4400	3.34	523,000	365	503,000	345	479,000	320	445,000	295	401,000	260				
116	4600	3.65	553,000	425	534,000	405	513,000	380	488,000	355	454,000	320	335,000	240		
121	4800	3.98	583,000	485	564,000	465	545,000	445	525,000	420	497,000	390	411,000	315		
126	5000	4.31	610,000	555	596,000	540	579,000	515	560,000	495	537,000	465	471,000	395	347,000	295
132	5250	4.76	645,000	645	633,000	640	617,000	610	602,000	590	583,000	565	531,000	495	448,000	415
138	5500	5.22	680,000	745	669,000	735	656,000	720	641,000	695	624,000	670	580,000	605	521,000	525
145	5750	5.71	714,000	855	705,000	845	694,000	830	680,000	810	665,000	785	630,000	730	581,000	650
151	6000	6.21	749,000	970	740,000	965	729,000	955	718,000	930	715,000	910	673,000	855	634,000	790
157	6250	6.74	784,000	1110	775,000	1100	765,000	1080	755,000	1070	742,000	1040	715,000	990	680,000	925
163	6500	7.29			809,000	1240	800,000	1220	790,000	1210	780,000	1190	753,000	1140	725,000	1080
170	6750	7.86			844,000	1390	835,000	1380	825,000	1360	816,000	1350	793,000	1300	766,000	1240
176	7000	8.45			876,000	1550	870,000	1540	861,000	1530	853,000	1510	831,000	1470	806,000	1410
188	7500	9.71					937,000	1910	931,000	1900	924,000	1880	907,000	1850	885,000	1800
201	8000	11.04							1,000,000	2320	991,000	2300	979,000	2270	961,000	2220
214	8500	12.48							1,070,000	2780	1,060,000	2770	1,050,000	2750	1,030,000	2710
226	9000	14.00									1,130,000	3300	1,120,000	3280	1,110,000	3240
239	9500	15.58											1,190,000	3880	1,180,000	3840
251	10000	17.27											1,250,000	4540	1,240,000	4490

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
138	5500	5.22	422,000	430												
145	5750	5.71	510,000	565	391,000	440										
151	6000	6.21	578,000	700	497,000	600										
157	6250	6.74	637,000	845	576,000	750										
163	6500	7.29	688,000	1010	640,000	905	469,000	670								
170	6750	7.86	735,000	1170	695,000	1080	569,000	870								
176	7000	8.45	780,000	1350	746,000	1260	616,000	1060	448,000	745						
188	7500	9.71	861,000	1730	836,000	1660	767,000	1470	659,000	1200						
201	8000	11.04	940,000	2160	918,000	2100	864,000	1930	791,000	1700	678,000	1460				
214	8500	12.48	1,020,000	2650	999,000	2590	953,000	2430	897,000	2240	820,000	1990	707,000	1720		
226	9000	14.00	1,090,000	3200	1,080,000	3130	1,040,000	3000	987,000	2810	935,000	2610	855,000	2310	748,000	2040
239	9500	15.58	1,160,000	3800	1,150,000	3750	1,120,000	3620	1,080,000	3440	1,030,000	3240	972,000	2980	897,000	2710
251	10000	17.27	1,230,000	4460	1,220,000	4410	1,190,000	4300	1,160,000	4140	1,120,000	3940	1,080,000	3730	1,020,000	3460

Double Inlet # Size "A" Supervane Fan—Design 1 **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
293	1000	0 171	658	0.024												
352	1200	0.246	1,080	0.062												
411	1400	0.334	1,440	0.115	891	0 065										
469	1600	0.436	1,750	0 195	1,340	0 135										
528	1800	0.552	2,060	0.295	1,720	0.225	1,300	0 160								
586	2000	0.682			2,060	0.345	1,720	0.275	1,320	0.195						
645	2200	0.825			2,390	0.495	2,100	0 415	1,750	0.33	1,370	0 245				
704	2400	0 981			2,700	0 67	2,440	0.58	2,170	0.50	1,850	0 415	1,470	0 31		
763	2600	1.15			3,000	0.89	2,770	0.79	2,530	0.70	2,260	0.61	1,970	0.51	1,610	0.40
821	2800	1.34					3,080	1.05	2,870	0.94	2,640	0 84	2,380	0.74	2,110	0.64
880	3000	1.54					3,390	1.35	3,190	1.20	3,000	1.10	2,770	1.00	2,520	0.89
939	3200	1 75					3,690	1.7	3,520	1.55	3,330	1.45	3,120	1.30	2,900	1 20
998	3400	1.97							3,820	1.95	3,650	1 8	3,470	1.65	3,270	1.55
1058	3600	2.21							4,120	2.35	3,980	2 2	3,800	2.10	3,610	1 95
1114	3800	2.46							4,410	2.8	4,260	2.7	4,110	2.55	3,960	2.40
1173	4000	2 73									4,560	3.2	4,420	3.05	4,270	2.90
1231	4200	3.01									4,800	3.8	4,730	3.65	4,580	3.50
1290	4400	3.30											5,040	4.3	4,900	4.10
1350	4600	3.61											5,330	5	5,210	4.85
1409	4800	3.93													5,500	5.6
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
821	2800	1.34	1,790	0.52												
880	3000	1.54	2,270	0.79	1,460	0.485										
939	3200	1.75	2,680	1.10	2,180	0.84										
998	3400	1.97	3,080	1 45	2,630	1.20	2,100	0.89								
1058	3600	2.21	3,430	1.80	3,040	1.55	2,610	1.30	2,020	0.95						
1114	3800	2 46	3,700	2.25	3,430	2.0	3,040	1.70	2,600	1.40	1,850	0.98				
1173	4000	2 73	4,130	2.75	3,810	2.5	3,450	2.20	3,070	1.90	2,630	1.55				
1231	4200	3 01	4,450	3.30	4,150	3.0	3,830	2.70	3,480	2.40	3,100	2.10				
1290	4400	3 30	4,760	3.95	4,480	3.6	4,200	3.30	3,880	3.00	3,510	2.65	2,750	1.95		
1350	4600	3 61	5,090	4.65	4,810	4.3	4,550	3.95	4,260	3.65	3,940	3.30	3,270	2.65		
1409	4800	3.93	5,380	5.4	5,150	5.0	4,870	4 65	4,620	4.35	4,340	4 00	3,720	3.3	2,940	2.50
1469	5000	4 26	5,700	6.3	5,460	5 8	5,210	5.5	4,970	5.1	4,700	4.75	4,130	4.1	3,480	3.30
1540	5250	4.70	6,060	7.4	5,850	7.0	5,630	6.6	5,380	6.2	5,160	5 8	4,610	5.1	4,050	4.35
1614	5500	5 16			6,230	8 2	6,000	7.8	5,810	7.4	5,590	7 0	5,090	6.2	4,550	5.4
1689	5750	5.64			6,600	9.6	6,400	9.2	6,190	8.7	5,990	8.3	5,520	7.5	5,060	6.6
1761	6000	6 14			6,970	11	6,780	10.5	6,600	10.0	6,400	9.8	5,990	8 9	5,540	8.0
1834	6250	6.66					7,150	12.5	6,990	12.0	6,780	11.5	6,400	10.5	5,990	9.5
1908	6500	7.20					7,530	14	7,350	13.5	7,170	13	6,820	12 0	6,420	11.0
1980	6750	7 76							8,730	15.5	7,570	15	7,210	14 0	6,850	13.0
2055	7000	8.85							8,100	17.5	7,950	17	7,600	16.0	7,270	15.0
2200	7500	9.59									8,700	22	8,380	20.5	8,070	19.5
2345	8000	10.91											9,150	26	8,850	24.5
2495	8500	12.32											9,880	32	9,620	30
2640	9000	13.81													10,400	37
2788	9500	15 40													11,100	45
2940	10000	17 05														
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1540	5250	4.70	3,300	3.35												
1614	5500	5.16	3,990	4.55	3,290	3.6										
1689	5750	5.64	4,530	5.8	3,960	4.9										
1761	6000	6.14	5,010	7.1	4,530	6.2	2,880	3 85								
1834	6250	6 66	5,550	8.6	5,070	7.7	3,960	5 7								
1908	6500	7.20	6,010	10 0	5,560	9.3	4,590	7.4								
1980	6750	7.76	6,460	12 0	6,050	11 0	5,150	9.1	4,050	6.8						
2055	7000	8 85	6,830	13 5	6,520	12.5	5,690	11	4,740	8.7						
2200	7500	9.59	7,750	18	7,410	17	6,680	15	5,870	13.0	4,950	10 5				
2345	8000	10 91	8,560	23	8,250	22	7,620	20	6,900	17.5	6,150	15.0	5,260	12.5		
2195	8500	12.32	9,350	29	9,060	27	8,480	25	7,840	23	7,160	20 5	6,440	18	5,600	15.0
2640	9000	13.81	10,100	35	9,850	34	9,300	32	8,750	29	8,160	27	7,500	24	6,800	21.5
2788	9500	15.40	10,900	43	10,600	41	10,100	39	9,600	36	9,080	33	8,500	31	7,850	28
2940	10000	17 05	11,600	50	11,400	50	10,900	47	10,400	44	9,930	41	9,300	38	8,840	35

Double Inlet **Single Width**

Size "B" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
239	1000	0.171	997	0.037												
287	1200	0.246	1,640	0.095												
335	1400	0.334	2,180	0.175	1,350	0.098										
382	1600	0.436	2,660	0.295	2,030	0.205										
430	1800	0.552	3,130	0.415	2,610	0.345	1,980	0.245								
477	2000	0.682			3,130	0.52	2,615	0.415	2,000	0.30						
525	2200	0.825			3,620	0.75	3,190	0.63	2,660	0.50	2,080	0.37				
573	2400	0.981			4,080	1.00	3,690	0.88	3,270	0.76	2,810	0.63	2,220	0.47		
621	2600	1.15			4,540	1.35	4,200	1.25	3,840	1.05	3,420	0.92	2,980	0.77	2,440	0.61
668	2800	1.34					4,680	1.6	4,360	1.40	4,010	1.25	3,610	1.10	3,200	0.97
717	3000	1.54					5,140	2.0	4,840	1.85	4,540	1.70	4,200	1.55	3,820	1.35
761	3200	1.75					5,600	2.6	5,330	2.35	5,040	2.15	4,740	2.00	4,390	1.80
811	3400	1.97							5,790	2.90	5,540	2.70	5,260	2.50	4,960	2.35
860	3600	2.21							6,240	3.55	6,000	3.35	5,760	3.15	5,470	2.95
909	3800	2.46							6,690	4.3	6,460	4.05	6,230	3.85	6,000	3.6
955	4000	2.73									6,930	4.9	6,720	4.65	6,480	4.4
1002	4200	3.01									7,390	5.8	7,170	5.5	6,950	5.3
1051	4400	3.30											7,630	6.5	7,140	6.2
1099	4600	3.61											8,080	7.6	7,900	7.3
1148	4800	3.93													8,340	8.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
668	2800	1.34	2,710	0.79												
717	3000	1.54	3,440	1.20	2,220	0.73										
764	3200	1.75	4,000	1.65	3,310	1.25										
811	3400	1.97	4,680	2.15	3,990	1.80	3,190	1.35								
860	3600	2.21	5,200	2.75	4,620	2.35	3,950	1.95	3,000	1.45						
900	3800	2.46	5,740	3.4	5,200	3.00	4,600	2.6	3,940	2.15	2,810	1.50				
955	4000	2.73	6,250	4.2	5,770	3.75	5,230	3.3	4,660	2.90	3,990	2.35				
1002	4200	3.01	6,740	5.0	6,290	4.55	5,800	4.1	5,280	3.65	4,700	3.20				
1051	4400	3.30	7,220	6.0	6,800	5.5	6,370	5.0	5,880	4.55	5,320	4.05	4,160	2.95		
1099	4600	3.61	7,710	7.0	7,310	6.5	6,890	6.0	6,460	5.5	5,970	5.0	4,950	4.0		
1148	4800	3.93	8,150	8.2	7,800	7.6	7,390	7.1	7,000	6.6	6,570	6.1	5,630	5.0	4,460	3.75
1195	5000	4.26	8,630	9.5	8,290	8.9	7,900	8.3	7,540	7.8	7,110	7.2	6,250	6.2	5,270	5.0
1254	5250	4.70	9,190	11.5	8,860	10.5	8,530	10.0	8,160	9.4	7,810	8.8	7,000	7.7	6,140	6.6
1313	5500	5.16			9,450	12.5	9,110	12.0	8,800	11.5	8,460	10.5	7,710	9.5	6,910	8.2
1374	5750	5.64			10,000	14.5	9,710	14.0	9,390	13.0	9,080	12.5	8,390	11.5	7,650	10.0
1432	6000	6.14			10,600	17	10,300	16.0	10,000	15.5	9,700	15	9,080	13.5	8,400	12.0
1492	6250	6.66					10,800	18.5	10,600	18.0	10,300	17	9,700	16.0	9,080	14.5
1552	6500	7.20					11,400	21.5	11,100	20.5	10,900	20	10,300	18.5	9,730	17.0
1610	6750	7.76							11,700	23.5	11,500	23	10,900	21	10,400	19.5
1671	7000	8.85							12,300	27	12,000	26	11,500	24	11,000	22.5
1791	7500	9.59									13,200	33	12,700	31	12,200	29
1910	8000	10.91											13,900	39	13,400	37
2030	8500	12.32											15,000	48	14,600	46
2150	9000	13.81													15,700	56
2270	9500	15.40													16,800	68
2390	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1254	5250	4.70	5,000	5.1												
1313	5500	5.16	6,050	7.0	4,990	5.5										
1374	5750	5.64	6,800	8.8	6,000	7.5										
1432	6000	6.14	7,640	11.0	6,860	9.5	4,370	5.8								
1492	6250	6.66	8,400	13.0	7,690	11.5	6,000	8.7								
1552	6500	7.20	9,110	15.5	8,440	14.0	6,950	11.0								
1610	6750	7.76	9,790	18	9,170	16.5	7,800	14.0	6,130	10.0						
1671	7000	8.85	10,400	21	9,800	19.5	8,610	16.5	7,170	13.0						
1791	7500	9.59	11,700	28	11,200	26	10,100	23	8,900	19.5	7,510	16				
1910	8000	10.91	13,000	35	12,500	34	11,500	30	10,500	26	9,310	23	7,980	19		
2030	8500	12.32	14,200	44	13,700	42	12,900	38	11,900	35	10,900	31	9,750	27	8,500	23
2150	9000	13.81	15,300	54	14,950	52	14,100	48	13,400	44	12,400	40	11,400	36	10,300	32
2270	9500	15.40	16,500	66	16,100	64	15,400	58	14,600	51	13,800	50	12,900	46	11,900	42
2390	10000	17.05	17,600	78	17,300	76	16,600	70	15,800	66	15,000	62	14,300	58	13,400	54

Double Inlet

Size "C" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
201	1000	0 171	1,410	0.053												
241	1200	0.246	2,320	0 135												
281	1400	0.334	3,070	0 250	1,910	0 140										
322	1600	0.436	3,750	0 415	2,870	0 290										
362	1800	0 552	4,410	0.63	3,680	0 485	2,790	0.345								
402	2000	0 682			4,420	0.74	3,680	0.58	2,820	0 42						
442	2200	0 825			5,110	1.05	4,500	0 88	3,760	0.71	2,940	0.53				
482	2400	0 981			5,770	1 45	5,220	1.25	4,640	1.05	3,960	0 88	3,140	0 66		
522	2600	1.15			6,410	1 9	5,930	1.70	5,420	1 50	4,830	1.30	4,210	1.10	3,450	0.86
563	2800	1 31					6,600	2.25	6,150	2 00	5,660	1 80	5,090	1.60	4,520	1.35
604	3000	1.54					7,250	2 85	6,830	2 60	6,410	2 35	5,930	2.15	5,380	1.90
644	3200	1.75					7,910	3 65	7,520	3 30	7,130	3.05	6,700	2.80	6,210	2 55
684	3400	1.97							8,160	4 15	7,820	3 85	7,420	3.55	7,000	3 30
724	3600	2 21							8,810	5 0	8,480	4.75	8,140	4 45	7,740	4 15
764	3800	2 46							9,440	6.1	9,110	5.8	8,800	5.4	8,470	5.1
804	4000	2 73									9,790	6.9	9,460	6.6	9,160	6 2
845	4200	3.01									10,400	8 2	10,100	7 8	9,820	7.4
885	4400	3.30											10,800	9.2	10,500	8.8
925	4600	3 61											11,400	10.5	11,200	10.5
965	4800	3 93													11,800	12

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
563	2800	1 34	3,820	1.10												
604	3000	1.54	4,850	1.70	3,130	1.05										
644	3200	1 75	5,730	2.30	4,680	1.80										
684	3400	1.97	6,590	3.05	5,040	2 55	4,500	1.90								
724	3600	2 21	7,350	3.9	6,520	3 35	5,580	2.75	4,310	2.05						
764	3800	2 46	8,110	4.8	7,350	4.25	6,500	3.65	5,560	3.05	3,960	2.10				
804	4000	2 73	8,830	5 9	8,150	5.3	7,390	4 7	6,570	4.05	5,630	8 35				
845	4200	3 01	9,520	7.1	8,890	6.5	8,190	5.8	7,450	5.2	6,650	4.5				
885	4400	3 30	10,200	8 4	9,600	7.7	8,990	7.1	8,300	6.4	7,500	5.7	5,870	4.2		
925	4600	3 61	10,900	10.0	10,300	9.2	9,740	8.5	9,120	7.8	8,440	7.1	6,990	5.6		
965	4800	3 93	11,500	11.5	11,000	11 0	10,400	10 0	9,900	9.3	9,290	8.5	7,950	7 1	6,290	5.3
1005	5000	4 26	12,200	13.5	11,700	12 5	11,200	11.5	10,600	11.0	10,000	10.2	8,840	8 7	7,440	7.0
1055	5250	4 70	13,000	16	12,500	15.0	12,000	14.0	11,500	13.5	11,000	12.5	9,880	11.0	8,660	9.3
1106	5500	5 16			13,300	17 5	12,900	16.5	12,400	16.0	11,900	15.0	10,900	13 5	9,750	11.5
1155	5750	5 64			14,100	20.5	13,700	19.5	13,300	18.5	12,800	17.5	11,900	16	10,800	14.0
1205	6000	6 11			14,900	24	14,500	23	14,100	22	13,700	21	12,800	19	11,800	17.0
1258	6250	6 66					15,300	26	15,000	26	14,500	24	13,700	22	12,800	20.5
1307	6500	7 20					16,100	30	15,700	29	15,300	28	14,600	26	13,700	24
1358	6750	7 76							16,500	33	16,200	32	15,400	30	14,700	28
1408	7000	8 85							17,400	38	17,000	37	16,300	34	15,500	32
1509	7500	9 59									18,600	47	18,000	44	17,300	41
1609	8000	10 91											19,600	56	19,000	52
1710	8500	12 32											21,100	68	20,600	66
1810	9000	13 81													22,200	80
1910	9500	15 40													23,800	96
2010	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1055	5250	4 70	7,060	7 2												
1106	5500	5 16	8,530	9.9	7,040	7.8										
1155	5750	5 64	9,710	12 5	8,460	10 5										
1205	6000	6 14	10,800	15 5	9,680	13.5	6,160	8 2								
1258	6250	6 66	11,900	18.5	10,800	16.5	8,450	12 0								
1307	6500	7.20	12,900	22	11,900	20	9,820	16.0								
1358	6750	7 76	13,800	26	12,900	24	11,000	19 5	8,660	14.5						
1408	7000	8 85	14,800	30	13,900	28	12,200	23 5	10,100	18.5						
1509	7500	9 59	16,600	39	15,900	37	14,300	32	12,600	27	10,600	22 5				
1609	8000	10 91	18,300	50	17,700	47	16,300	42	14,800	37	13,100	32	11,300	27		
1710	8500	12 32	20,000	62	19,400	60	18,200	54	16,800	49	15,300	44	13,800	38	12,000	32
1810	9000	13 81	21,600	76	21,100	74	19,900	68	18,700	62	17,400	56	16,000	52	14,500	46
1910	9500	15 40	23,300	92	22,800	90	21,700	84	20,500	76	19,400	72	18,200	66	16,800	60
2010	10000	17.05	24,800	110	24,400	105	23,400	100	22,300	94	21,200	88	20,100	82	18,900	76

Double Inlet Size "D" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
173	1000	0.171	1,890	0.070												
208	1200	0.246	3,110	0.180												
242	1400	0.334	4,120	0.335	2,560	0.185										
278	1600	0.436	5,030	0.55	3,850	0.385										
312	1800	0.552	5,920	0.84	4,940	0.65	3,740	0.465								
347	2000	0.682			5,920	0.90	4,940	0.78	3,780	0.56						
382	2200	0.825			6,850	1.40	6,040	1.20	5,030	0.95	3,950	0.70				
417	2400	0.981			7,740	1.95	7,000	1.65	6,230	1.45	5,310	1.20	4,210	0.89		
451	2600	1.15			8,600	2.6	7,950	2.25	7,270	2.00	6,480	1.75	5,640	1.45	4,620	1.15
486	2800	1.34					8,850	3.0	8,260	2.70	7,600	2.4	6,840	2.10	6,060	1.85
520	3000	1.51					9,730	3.8	9,160	3.50	8,600	3.2	7,950	2.85	7,220	2.55
555	3200	1.75					10,600	4.9	10,100	4.45	9,550	4.1	8,990	3.75	8,310	3.40
590	3400	1.97							11,000	5.6	10,500	5.2	9,960	4.8	9,400	4.45
625	3600	2.21							11,800	6.8	11,400	6.3	10,900	6.0	10,400	5.6
659	3800	2.46							12,600	8.1	12,200	7.7	11,800	7.3	11,400	6.8
695	4000	2.73									13,100	9.2	12,700	8.8	12,300	8.3
730	4200	3.01									14,000	11	13,600	10.5	13,200	10.0
764	4400	3.30											14,500	12.5	14,100	12.0
799	4600	3.61											15,300	14.5	15,000	14.0
833	4800	3.93													15,800	16.0

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
486	2800	1.34	5,130	1.50												
520	3000	1.54	6,500	2.25	4,190	1.40										
555	3200	1.75	7,690	3.1	6,260	2.40										
590	3400	1.97	8,840	4.1	7,540	3.40	6,040	2.55								
625	3600	2.21	9,860	5.2	8,740	4.45	7,480	3.7	5,780	2.70						
659	3800	2.46	10,900	6.5	9,860	5.7	8,710	4.9	7,450	4.05	5,310	2.8				
695	4000	2.73	11,800	7.0	10,900	7.1	9,910	6.3	8,800	5.5	7,550	4.5				
730	4200	3.01	12,800	9.5	11,900	8.6	11,000	7.8	10,000	6.9	8,900	6.0				
764	4400	3.30	13,700	11.5	12,900	10.5	12,000	9.5	11,100	8.6	10,100	7.6	7,870	5.6		
799	4600	3.61	14,600	13.5	13,800	12.5	13,000	11.5	12,200	10.5	11,300	9.5	9,360	7.6		
833	4800	3.93	15,400	15.5	14,800	14.5	14,000	13.5	13,300	12.5	12,400	11.5	10,700	9.5	8,430	7.1
868	5000	4.26	16,400	18.0	15,700	17.0	15,000	15.5	14,300	14.5	13,500	13.5	11,900	11.5	9,980	9.4
911	5250	4.70	17,400	21.5	16,800	20.0	16,100	19.0	15,400	17.5	14,800	16.5	13,200	14.5	11,600	12.5
955	5500	5.16			17,900	23.5	17,300	22.5	16,700	21.5	16,000	20	14,600	18	13,100	15.5
998	5750	5.64			18,900	28	18,400	26	17,800	25	17,200	24	15,900	21	14,500	19
1041	6000	6.14			20,000	32	19,500	31	18,900	29	18,400	28	17,200	25	15,900	23
1086	6250	6.66					20,500	35	20,000	34	19,500	33	18,400	30	17,200	27
1129	6500	7.20					21,600	41	21,100	39	20,600	38	19,600	35	18,400	32
1171	6750	7.76							22,200	44	21,700	43	20,700	40	19,700	37
1215	7000	8.85							23,200	50	22,800	49	21,800	46	20,900	43
1302	7500	9.59									25,000	62	24,100	58	23,200	56
1390	8000	10.91											26,300	74	25,400	70
1475	8500	12.32											28,300	92	27,600	88
1561	9000	13.81													29,700	105
1650	9500	15.40													31,800	130
1735	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
911	5250	4.70	9,460	9.7												
955	5500	5.16	11,500	13.5	9,440	10.5										
998	5750	5.64	13,000	16.5	11,400	14										
1041	6000	6.14	14,500	20.5	13,000	18	8,200	11.0								
1086	6250	6.66	15,900	24.5	14,500	22	11,400	16.5								
1129	6500	7.20	17,300	29	16,000	27	13,200	21								
1171	6750	7.76	18,500	34	17,400	32	14,800	26	11,600	19.5						
1215	7000	8.85	19,800	40	18,700	37	16,300	31	13,600	25						
1302	7500	9.59	22,200	52	21,300	49	19,200	43	16,800	37	14,200	30				
1390	8000	10.91	24,600	66	23,700	64	21,900	56	19,800	50	17,600	43	15,100	36		
1475	8500	12.32	26,800	84	26,000	80	24,300	72	22,500	66	20,600	58	18,500	52	16,100	44
1561	9000	13.81	29,000	100	28,300	98	26,700	90	25,100	84	23,400	76	21,500	68	19,500	60
1650	9500	15.40	31,200	125	30,500	120	29,100	110	27,000	105	26,000	96	24,400	88	22,500	80
1735	10000	17.05	33,300	150	32,000	145	31,400	135	29,900	125	28,500	115	27,000	110	25,400	100

Double Inlet **Single Width**

Size "E" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
153	1000	0.171	2,440	0.091												
184	1200	0.246	4,020	0 230												
214	1400	0.334	5,320	0 435	3,310	0.24										
245	1600	0.436	6,510	0.72	4,070	0 50										
276	1800	0.552	7,650	1.1	6,390	0.84	4,830	0.60								
306	2000	0.682			7,650	1.30	6,390	1.00	4,880	0.73						
337	2200	0 825			8,850	1.85	7,800	1.55	6,500	1.25	5,100	0.91				
367	2400	0.981			10,000	2.50	9,040	2.15	8,040	1.85	6,800	1.55	5,430	1.15		
398	2600	1.15			11,100	3.35	10,300	2 95	9,400	2.6	8,370	2.25	7,280	1.90	5,970	1.50
428	2800	1.31					11,400	3.85	10,700	3.5	9,820	3.1	8,820	2.75	7,840	2.35
459	3000	1.54					12,600	4.95	11,800	4.5	11,100	4.1	10,300	3.70	9,340	3.3
490	3200	1.75					13,700	6.3	13,000	5.7	12,300	5.3	11,600	4.85	10,700	4.4
520	3400	1.97							14,100	7.2	13,600	6.7	12,900	6.2	12,100	5 7
551	3600	2.21							15,300	8.7	14,700	8.2	14,100	7 7	13,400	7.2
581	3800	2 46							16,400	10.5	15,800	10	15,200	9.4	14,700	8.8
612	4000	2 73									16,900	12	16,400	11.5	15,800	10.5
643	4200	3 01									18,100	14	17,500	13.5	17,000	13.0
673	4400	3 30											18,700	16.0	18,200	15.0
704	4600	3 61											19,800	18.5	19,300	18.0
735	4800	3.93													20,400	20.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
428	2800	1.34	6,620	1.95												
459	3000	1.54	8,400	2.9	5,420	1.80										
490	3200	1 75	9,940	4.0	8,100	3.10										
520	3400	1 97	11,400	5.3	9,760	4.35	7,800	3.3								
551	3600	2 21	12,700	6.7	11,300	5.8	9,670	4.8	7,460	3.5						
581	3800	2 46	14,000	8.3	12,700	7.3	11,300	6.4	9,640	5.3	6,860	3.65				
612	4000	2 73	15,300	10.0	14,100	9.2	12,800	8.1	11,400	7.0	9,750	5 8				
643	4200	3 01	16,500	12.5	15,400	11.0	14,200	10.0	12,900	8.9	11,500	7.8				
673	4400	3 30	17,700	14.5	16,600	13.5	15,600	12.0	14,400	11.0	13,000	9.8	10,200	7.3		
704	4600	3 61	18,800	17.5	17,900	16.0	16,900	14.5	15,800	13.5	14,600	12.0	12,100	9.7		
735	4800	3 93	20,000	20	19,100	18.5	18,100	17.5	17,100	16	16,100	15.0	13,800	12 5	10,900	9.2
765	5000	4 26	21,100	23	20,200	21.5	19,300	20.0	18,400	19	17,400	17.5	15,300	15 0	12,900	12.0
804	5250	4.70	22,200	28	21,700	26	20,900	24.5	20,000	23	19,100	21.5	17,100	18.5	15,000	16.0
842	5500	5.16			23,100	31	22,300	29	21,500	28	20,700	26	18,000	23	16,900	20.0
880	5750	5 64			24,400	36	23,700	34	22,900	32	22,200	31	20,500	28	18,800	24.5
919	6000	6.14			25,800	41	25,200	40	24,400	38	23,700	36	22,200	33	20,500	30
956	6250	6 66					26,500	46	25,900	44	25,100	42	23,700	39	22,200	36
995	6500	7.20					27,900	52	27,200	50	26,600	48	25,300	45	23,800	42
1053	6750	7 76							28,600	58	28,100	56	26,700	52	25,400	48
1071	7000	8.85							30,000	66	29,400	64	28,200	58	26,900	56
1149	7500	9 59									32,200	80	31,000	76	29,900	72
1223	8000	10.91											33,900	96	32,800	92
1300	8500	12 32											36,600	120	35,600	115
1378	9000	13.81													38,400	140
1454	9500	15.40													41,100	165
1531	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
804	5250	4.70	12,200	12.5												
842	5500	5.16	14,800	17.0	12,200	13.5										
880	5750	5.64	16,800	21.5	14,700	18.5										
919	6000	6.14	18,700	26	16,800	23.5	10,700	14.5								
956	6250	6.66	20,500	32	18,800	29	14,700	21								
995	6500	7.20	22,300	38	20,600	35	17,000	27								
1053	6750	7.76	23,900	44	22,400	41	19,100	33	15,000	25						
1071	7000	8.85	25,500	52	24,200	48	21,100	40	17,600	32						
1149	7500	9.59	28,700	68	27,500	64	24,800	56	21,800	47	18,400	39				
1223	8000	10.91	31,800	86	30,600	82	28,200	74	25,600	64	22,800	56	19,500	47		
1300	8500	12 32	34,600	110	33,600	105	31,400	94	29,100	84	26,600	76	23,800	66	20,000	56
1378	9000	13.81	37,500	130	36,500	125	34,500	115	32,400	110	30,300	98	27,800	88	25,200	78
1454	9500	15.40	40,400	160	39,400	155	37,600	145	35,600	135	33,600	125	31,500	115	29,100	105
1531	10000	17.05	43,100	190	42,200	185	40,500	175	38,700	160	36,800	150	34,900	140	32,800	130

Double Inlet

Size "F" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
136	1000	0.171	3,050	0.115												
164	1200	0.246	5,030	0.29												
191	1400	0.331	6,660	0.51	4,140	0.30										
218	1600	0.436	8,150	0.90	6,210	0.63										
246	1800	0.552	9,580	1.35	8,000	1.05	6,050	0.75								
273	2000	0.682			9,580	1.60	8,000	1.25	6,140	0.91						
300	2200	0.825			11,100	2.30	9,770	1.9	8,150	1.55	6,390	1.15				
328	2400	0.981			12,500	3.15	11,300	2.7	10,100	2.30	8,600	1.9	6,800	1.45		
355	2600	1.15			13,900	4.15	12,900	3.7	11,800	3.25	10,500	2.8	9,110	2.35	7,470	1.85
382	2800	1.34					14,300	4.8	13,400	4.35	12,300	3.9	11,000	3.40	9,800	2.95
410	3000	1.54					15,600	6.2	14,800	5.6	13,900	5.1	12,900	4.65	11,700	4.15
437	3200	1.75					17,200	7.9	16,300	7.2	15,400	6.6	14,500	6.1	13,500	5.5
464	3400	1.97							17,700	9	17,000	8.3	16,100	7.7	15,200	7.2
491	3600	2.21							19,100	11	18,400	10.0	17,600	9.7	16,800	9.0
519	3800	2.46							20,500	13	19,800	12.5	19,100	12.0	18,400	11.0
546	4000	2.73									21,200	15.0	20,500	14.0	19,800	13.5
573	4200	3.01									22,600	17.5	22,000	17.0	21,300	16.0
600	4400	3.30											23,400	20.0	22,800	19.0
628	4600	3.61											24,700	23.5	24,200	22.5
655	4800	3.93													25,500	26

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
382	2800	1.34	8,300	2.40												
410	3000	1.54	10,500	3.65	6,790	2.25										
437	3200	1.75	12,400	5.0	10,100	3.9										
464	3400	1.97	14,300	6.6	12,200	5.5	9,770	4.15								
491	3600	2.21	15,900	8.4	14,100	7.2	12,100	6.0	9,350	4.4						
519	3800	2.46	17,600	10.5	15,900	9.2	14,100	8.0	12,100	6.6	8,600	4.55				
546	4000	2.73	19,200	13.0	17,700	11.5	16,000	10.0	14,300	8.8	12,200	7.3				
573	4200	3.01	20,600	15.5	19,300	14.0	17,800	12.5	16,200	11.0	14,400	9.8				
600	4400	3.30	22,100	18.5	20,800	17.0	19,500	15.5	18,000	14.0	16,300	12.5	12,700	9.1		
628	4600	3.61	23,600	21.5	22,400	20.0	21,100	18.5	19,800	17.0	18,300	15.5	15,200	12.0		
655	4800	3.93	25,000	25	23,900	23.5	22,600	21.5	21,400	20.0	20,100	18.5	17,200	15.5	13,700	11.5
682	5000	4.26	26,400	29	25,400	27	24,200	25	23,100	23.5	21,800	22	19,200	19.0	16,100	15.5
716	5250	4.70	28,100	34	27,100	32	26,100	31	25,000	29	24,000	27	21,400	23.5	18,800	20
750	5500	5.16			29,000	38	27,900	36	27,000	35	25,900	33	23,600	29	21,200	25
785	5750	5.64			30,600	45	29,700	43	28,700	40	27,800	38	25,700	35	23,400	31
819	6000	6.14			32,400	52	31,400	50	30,600	47	29,700	45	27,800	41	25,700	37
854	6250	6.66					33,200	58	32,400	56	31,500	52	29,700	49	27,800	44
887	6500	7.20					35,000	66	34,100	62	33,300	60	31,700	56	29,800	52
921	6750	7.76							35,900	72	35,200	70	33,400	64	31,800	60
955	7000	8.85							37,600	82	36,900	80	35,300	74	33,800	70
1021	7500	9.59									40,300	100	38,900	96	37,400	90
1091	8000	10.91											42,500	120	41,000	115
1160	8500	12.32											45,800	150	44,700	140
1229	9000	13.81													48,100	175
1298	9500	15.40													51,500	210
1364	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
716	5250	4.70	15,300	15.5												
750	5500	5.16	18,500	21.5	15,300	17										
785	5750	5.64	21,000	27	18,400	23										
819	6000	6.14	23,400	33	21,000	29	13,400	18								
854	6250	6.66	25,700	40	23,500	36	18,400	27								
887	6500	7.20	27,900	47	25,800	43	21,300	34								
921	6750	7.76	30,000	56	28,100	52	23,900	42	18,800	31						
955	7000	8.85	32,000	64	30,200	60	26,400	50	22,000	41						
1021	7500	9.59	36,000	84	34,400	80	31,000	70	27,300	60	23,000	48				
1091	8000	10.91	39,600	110	38,300	105	35,400	92	32,000	82	28,500	70	24,400	58		
1160	8500	12.32	43,300	135	42,000	130	39,400	115	36,100	105	33,000	94	29,900	84	26,000	70
1229	9000	13.81	46,900	165	45,700	160	43,100	145	40,000	135	37,900	125	34,800	110	31,500	98
1298	9500	15.40	50,500	200	49,300	195	47,100	180	44,000	165	42,100	155	39,400	140	36,400	130
1364	10000	17.05	53,900	240	52,900	230	50,600	215	48,400	200	46,100	190	43,500	175	41,000	165

Double Inlet # Size "G" Supervane Fan—Design 1 **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
119	1000	0.171	3,980	0.145												
143	1200	0.246	6,500	0.375												
167	1400	0.334	8,680	0.71	5,390	0.39										
191	1600	0.436	10,600	1.15	8,110	0.81										
215	1800	0.552	12,500	1.8	10,400	1.35	7,890	0.98								
238	2000	0.682			12,500	2.1	10,400	1.65	7,960	1.20						
262	2200	0.825			14,400	3.0	12,700	2.5	10,600	2.00	8,320	1.50				
286	2400	0.981			16,300	4.1	14,700	3.5	13,100	3.00	11,200	2.50	8,760	1.90		
310	2600	1.15			18,100	5.4	16,800	4.8	15,300	4.25	13,700	3.65	11,900	3.10	9,750	2.40
334	2800	1.34					18,700	6.3	17,400	5.7	16,000	5.1	14,400	4.45	12,800	3.85
358	3000	1.54					20,500	8.1	19,300	7.3	18,100	6.7	16,800	6.1	15,200	5.4
382	3200	1.75					22,400	10.5	21,300	9.3	20,100	8.6	18,900	7.9	17,000	7.2
406	3400	1.97							23,100	11.5	22,100	11.0	21,000	10.0	19,800	9.3
430	3600	2.21							24,900	14	24,000	13.5	23,000	12.5	21,900	12.0
453	3800	2.46							26,700	17	25,800	16.5	24,900	15.5	23,900	14.5
477	4000	2.73									27,600	19.5	26,800	18.5	25,900	17.5
501	4200	3.01									29,500	23	28,600	22	27,800	21
525	4400	3.30											30,400	26	29,700	25
549	4600	3.61											32,200	30	31,500	29
572	4800	3.93													33,300	34

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.48 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
334	2800	1.34	10,800	3.15												
358	3000	1.54	13,700	4.75	8,850	2.95										
382	3200	1.75	16,200	6.5	13,200	5.1										
406	3400	1.97	18,600	8.7	15,900	7.1	12,700	5.4								
430	3600	2.21	20,800	11.0	18,400	9.4	15,800	7.8	12,200	5.7						
453	3800	2.46	22,900	13.5	20,800	12	18,400	10.5	15,700	8.6	11,200	5.9				
477	4000	2.73	25,000	16.5	23,000	15	20,900	13.0	18,600	11.5	15,900	9.5				
501	4200	3.01	27,000	20	25,100	18	23,200	16.5	21,100	14.5	18,800	12.5				
525	4400	3.30	28,900	24	27,100	22	25,400	20	23,400	18	21,200	16	16,600	12.0		
549	4600	3.61	30,800	28	29,200	26	27,500	24	25,800	22	23,800	20	19,800	16.0		
572	4800	3.93	32,600	33	31,100	30	29,500	28	27,900	26	26,200	24	22,500	20.0	17,800	15
596	5000	4.26	34,400	38	33,000	35	31,500	33	30,100	31	28,400	29	24,900	24.5	21,000	20
626	5250	4.70	36,700	45	35,400	42	34,000	40	•32,600	37	31,200	35	27,900	31	24,500	26
656	5500	5.16			37,700	50	36,400	47	35,100	45	33,800	42	30,800	38	27,600	33
686	5750	5.64			40,000	58	38,800	56	37,300	52	36,200	50	33,500	45	30,600	40
716	6000	6.14			42,200	68	41,000	64	39,900	62	38,700	60	36,200	54	33,400	49
746	6250	6.66					43,300	74	42,300	72	41,000	68	38,600	64	36,200	58
775	6500	7.20					45,600	86	44,400	82	43,400	80	41,300	74	38,800	68
805	6750	7.76							46,800	94	45,700	90	43,600	84	41,400	78
835	7000	8.85							49,000	105	48,000	105	46,000	96	43,900	90
895	7500	9.59									52,500	130	50,700	125	48,800	115
955	8000	10.91											55,400	155	53,500	150
1014	8500	12.32											59,700	190	58,200	185
1074	9000	13.81													62,700	225
1133	9500	15.40													67,100	270
1193	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
626	5250	4.70	19,900	20.5												
656	5500	5.16	24,100	28	19,900	22										
686	5750	5.64	27,400	35	23,900	30										
716	6000	6.14	30,400	43	27,300	38	17,400	23.0								
746	6250	6.66	33,500	52	30,600	47	23,900	35								
775	6500	7.20	36,300	62	33,600	56	27,700	44								
805	6750	7.76	39,000	72	36,600	66	31,100	54	24,500	41						
835	7000	8.85	41,600	84	39,400	78	34,400	66	28,600	52						
895	7500	9.59	46,800	110	44,800	105	40,400	90	35,500	78	30,000	64				
955	8000	10.91	51,900	140	49,800	135	46,000	120	41,700	105	37,100	92	31,800	76		
1014	8500	12.32	56,500	175	54,800	170	51,300	155	47,300	140	43,400	125	38,900	110	33,900	92
1074	9000	13.81	61,100	215	59,600	205	56,300	190	52,900	175	49,300	160	45,300	145	41,100	130
1133	9500	15.40	65,700	260	64,300	250	61,300	235	58,100	215	54,900	200	51,300	185	47,500	170
1193	10000	17.05	70,200	310	68,900	300	66,100	280	63,100	265	60,000	245	56,800	230	53,400	215

Double Inlet

Size "H" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
106	1000	0 171	5,040	0 19												
127	1200	0.246	8,310	0 48												
149	1400	0.334	11,000	0 90	6,840	0.495										
170	1600	0 436	13,500	1 50	10,300	1 05										
191	1800	0 552	15,800	2.25	13,200	1 75	10,000	1 25								
212	2000	0 682			15,800	2.65	13,200	2.10	10,100	1 50						
233	2200	0.825			18,300	3 8	16,100	3.15	13,500	2.55	10,600	1 90				
255	2400	0 981			20,700	5 2	18,700	4 45	16,700	3.85	14,200	3.15	11,300	2.40		
276	2600	1.15			23,000	6.9	21,200	6.1	19,400	5 4	17,300	4 65	15,100	3.95	12,400	3.05
297	2800	1 34					23,700	8	22,000	7.2	20,300	6.4	18,300	5.6	16,200	4.9
318	3000	1 54					26,000	10	24,500	9.3	23,000	8.5	21,200	7.7	19,300	6.8
340	3200	1 75					28,400	13	27,000	12 0	25,600	11 0	24,000	10.0	22,200	9 1
361	3400	1 97							29,300	15.0	28,000	14 0	26,600	13.0	25,100	12 0
382	3600	2 21							31,600	18.0	30,400	17 0	29,200	16.0	27,700	15 0
403	3800	2 46							33,800	21.5	32,700	20.5	31,500	19.5	30,400	18 5
425	4000	2 73									35,100	24.5	34,000	23.5	32,800	22
445	4200	3 01									37,400	29	36,300	28	35,200	27
467	4400	3 30											38,600	33	37,600	32
488	4600	3.61											40,900	39	40,000	37
510	4800	3 93													42,200	43

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
297	2800	1 34	13,700	4.0												
318	3000	1.54	17,400	6 0	11,200	3 7										
340	3200	1 75	20,600	8 3	16,800	6.4										
361	3400	1.97	23,600	11.0	20,200	9	16,200	6.9								
382	3600	2.21	26,400	14.0	23,400	12	20,000	9.9	15,400	7.3						
403	3800	2.46	29,000	17.5	26,300	15	23,300	13	19,900	11.0	14,200	7.5				
425	4000	2 73	31,600	21	29,200	19	26,400	17	23,500	14 5	20,200	12.0				
445	4200	3 01	34,100	25	31,900	23	29,400	21	26,700	18.5	23,800	16 0				
467	4400	3.30	36,600	30	34,400	28	32,200	25	29,700	23	26,900	20.5	21,100	15 0		
488	4600	3.61	39,000	36	37,000	33	34,800	30	32,700	28	30,200	25	25,000	20 0		
510	4800	3.93	41,300	41	39,500	39	37,400	36	35,400	33	33,200	31	28,500	25 5	22,600	19
531	5000	4.26	43,600	48	41,900	45	40,000	42	38,100	39	36,000	36	31,600	31	26,700	25
557	5250	4.70	46,500	56	44,900	54	43,100	50	41,200	47	39,600	45	35,300	39	31,000	33
584	5500	5.16			47,800	64	46,100	60	44,500	56	42,800	54	39,000	48	35,000	42
610	5750	5.64			50,600	74	49,100	70	47,400	67	45,900	64	42,400	58	38,800	51
637	6000	6 14			53,400	86	52,000	82	50,500	78	49,000	74	45,900	68	42,500	62
663	6250	6.66					54,800	94	58,500	92	52,000	86	49,000	80	45,900	74
690	6500	7.20					57,800	110	56,400	105	55,000	100	52,300	92	49,200	86
716	6750	7.76							59,200	120	58,000	115	55,200	105	52,500	100
743	7000	8.85							62,100	135	60,900	130	58,400	120	55,600	115
796	7500	9 59									66,600	165	64,300	155	61,900	150
849	8000	10 91											70,100	195	67,900	190
902	8500	12.32											75,600	245	73,800	235
955	9000	13 81													79,500	285
1008	9500	15.40													85,000	345
1060	10000	17 05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
557	5250	4.70	25,300	26												
584	5500	5.16	30,600	35	25,200	28										
610	5750	5 64	34,800	45	30,300	38										
637	6000	6 14	38,600	54	34,700	48	22,100	29								
663	6250	6 66	42,500	66	38,900	60	30,400	44								
690	6500	7.20	46,100	78	42,600	72	35,200	56								
716	6750	7 76	49,500	92	46,400	84	39,500	70	31,000	52						
743	7000	8.85	52,800	105	50,000	98	43,600	84	36,300	66						
796	7500	9.59	59,500	140	56,800	130	51,200	115	45,000	98	38,000	80				
849	8000	10.91	65,800	180	63,300	170	58,500	150	53,000	135	47,100	115	40,300	96		
902	8500	12.32	71,600	220	69,500	215	65,000	195	60,100	175	55,000	155	49,400	140	43,000	115
955	9000	13.81	77,500	275	75,600	280	71,400	240	67,100	220	62,600	205	57,500	185	52,100	165
1008	9500	15.40	83,500	330	81,500	320	77,600	300	73,700	275	69,600	255	65,100	235	60,200	215
1060	10000	17.05	89,100	395	87,400	385	83,800	360	80,000	335	76,100	315	72,000	290	67,900	270

Double Inlet

Size "J" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
95	1000	0 171	6,220	0 235												
115	1200	0 246	10,300	0.59												
134	1400	0 334	13,600	1.10	8,440	0 61										
153	1600	0 436	16,600	1.85	12,700	1.30										
172	1800	0 552	19,500	2.8	16,300	2 15	12,300	1 55								
191	2000	0 682			19,500	3.25	16,300	2 6	12,500	1.85						
210	2200	0 825			22,600	4.65	19,900	3.9	16,600	3.15	13,000	2 3				
229	2400	0 981			25,500	6.4	23,000	5.5	20,500	4.75	17,500	3.9	13,900	2 95		
248	2600	1.15			28,400	8.5	26,200	7 5	24,000	6.6	21,300	5.7	18,600	4.85	15,200	3.8
268	2800	1 34					29,200	9 9	27,200	8 9	25,000	8 0	22,500	7 0	20,000	6.0
287	3000	1.54					32,000	12.5	30,200	11.5	28,400	10 5	26,200	9 5	23,800	8.5
306	3200	1.75					35,000	16	33,200	14 5	31,500	13.5	29,000	12.5	27,400	11.5
325	3400	1.97							36,100	18.5	34,600	17	32,800	16 0	31,000	14.5
314	3600	2.21							39,000	22.5	37,500	21	36,000	19 5	34,200	18.5
363	3800	2 46							41,700	27	40,300	25	38,900	24	37,500	22.5
382	4000	2 73									43,200	30	41,900	29	40,500	27
401	4200	3 01									46,100	36	44,800	35	43,400	33
420	4400	3 30											47,600	41	46,400	39
410	4600	3 61											50,500	47	49,300	46
459	4800	3 93													52,100	54

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
268	2800	1 34	16,900	4 9												
287	3000	1 54	21,400	7 4	13,800	4 6										
306	3200	1 75	25,400	10.0	20,700	8 0										
325	3400	1 97	29,200	13 5	21,900	11.0	19,900	8.5								
344	3600	2 21	32,500	17.0	28,800	14.5	24,700	12.0	19,100	9.0						
363	3800	2 46	35,800	21 5	32,500	19 0	28,800	16.0	24,600	13.5	17,500	9.3				
382	4000	2 73	39,000	26	36,000	23 5	32,700	20.5	29,100	18	24,900	15				
401	4200	3.01	42,100	31	39,300	29	36,200	26	33,300	23	29,400	20				
420	4400	3 30	45,100	37	42,400	34	39,800	31	36,700	28	33,200	25	26,000	18.5		
440	4600	3 61	48,100	44	45,600	41	43,000	37	40,300	35	37,300	31	30,900	25		
459	4800	3 93	50,900	52	48,800	48	46,100	44	43,700	41	41,000	38	35,100	31	27,800	23.5
478	5000	4 26	53,900	60	51,700	56	49,400	52	47,100	48	44,400	45	39,000	39	32,900	31
501	5250	4 70	57,400	70	55,400	66	53,200	62	51,000	58	48,700	56	43,600	48	38,400	41
525	5500	5 16			59,000	78	56,900	74	55,000	70	52,800	66	48,100	60	43,100	52
549	5750	5 64			62,400	92	60,600	88	58,500	82	56,600	78	52,400	70	47,800	62
574	6000	6 14			66,000	105	64,100	100	62,400	96	60,500	92	56,600	84	52,400	76
597	6250	6 66					67,600	115	66,000	115	64,100	105	60,500	98	56,600	90
621	6500	7 20					71,300	135	69,500	130	67,800	125	64,500	115	60,600	105
645	6750	7 76							73,100	145	71,500	140	68,100	130	64,700	120
669	7000	8.85							76,600	165	75,000	160	72,000	150	68,700	140
716	7500	9 59									82,100	205	79,200	195	76,300	185
764	8000	10 91											86,500	245	83,700	230
812	8500	12.32											93,400	300	91,000	285
860	9000	13.81													98,100	350
908	9500	15.40													105,000	425
955	10000	17 05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
501	5250	4.70	31,200	32												
525	5500	5.16	37,800	44	31,100	35										
549	5750	5.64	42,900	56	37,400	47										
574	6000	6.14	47,700	68	42,800	60	27,300	36								
597	6250	6.66	52,400	82	47,000	72	37,400	54								
621	6500	7.20	56,900	96	52,600	88	43,400	70								
645	6750	7.76	61,000	115	57,300	105	48,600	86	38,200	64						
669	7000	8.85	65,100	130	61,600	120	53,800	105	44,800	82						
716	7500	9.59	73,200	170	70,000	160	63,100	140	55,500	120	46,900	98				
764	8000	10.91	81,000	220	78,000	210	72,000	185	65,300	165	58,100	140	49,700	120		
812	8500	12.32	88,400	275	85,600	260	80,100	240	74,100	215	67,800	195	60,900	170	53,000	145
860	9000	13.81	95,600	340	93,200	325	88,000	300	82,600	275	77,100	250	70,900	225	64,200	200
908	9500	15.40	103,000	410	100,000	395	96,000	365	91,000	340	85,900	315	80,300	290	74,200	265
955	10000	17.05	110,000	490	108,000	470	103,000	440	98,600	410	94,000	385	88,900	360	83,500	335

Double Inlet

Size "K" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M. Static Pressure ⅛" Water .0722 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅞" Water .506 ozs. per sq. inch	H. P.
83	1000	0.171	8,260	0.31												
100	1200	0.246	13,600	0.78												
116	1400	0.334	18,000	1.45	11,200	0.8										
133	1600	0.436	22,000	2.45	16,800	1.70										
150	1800	0.552	25,900	3.7	21,600	2.85	16,400	2.05								
166	2000	0.682			25,900	4.35	21,600	3.45	16,500	2.45						
183	2200	0.825			30,000	6.2	26,400	5.2	22,000	4.15	17,300	3.1				
199	2400	0.981			33,800	8.5	30,600	7.3	27,200	6.3	23,300	5.2	18,400	3.9		
216	2600	1.15			37,600	11.5	34,800	10.0	31,800	8.8	28,300	7.6	24,700	6.5	20,200	5.0
233	2800	1.34					38,800	13.0	36,100	12.0	34,200	10.5	29,900	9.2	26,500	8.0
249	3000	1.54					42,500	16.5	40,100	15.0	37,600	14.0	34,800	12.5	31,600	11.0
266	3200	1.75					46,400	21.5	44,100	19.5	41,800	18.0	39,200	16.5	36,400	15.0
282	3400	1.97							47,900	21.5	45,900	22.5	43,500	21	41,100	19.5
299	3600	2.21							51,700	30	49,800	28	47,700	26	45,400	24.5
316	3800	2.46							55,400	36	53,500	34	51,600	32	49,700	30
332	4000	2.73									57,400	40	55,600	37	53,600	36
349	4200	3.01									61,100	48	59,400	46	57,600	44
365	4400	3.30											63,200	54	61,600	52
382	4600	3.61											76,900	64	65,400	60
399	4800	3.93													69,100	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
233	2800	1.34	22,400	6.5												
249	3000	1.54	28,500	9.9	18,400	6.1										
266	3200	1.75	33,600	13.5	27,400	10.5										
282	3400	1.97	38,600	18.0	33,000	15.0	26,400	11.0								
299	3600	2.21	43,100	22.5	38,200	19.5	32,700	16.0	25,300	12						
316	3800	2.46	47,500	28	43,100	25	38,100	21.5	32,600	18	23,300	12.5				
332	4000	2.73	51,800	35	47,800	31	43,400	27	38,600	24	33,100	19.5				
349	4200	3.01	55,900	42	52,100	38	48,000	34	43,700	30	39,000	26				
365	4400	3.30	59,900	50	56,300	46	52,700	41	48,700	38	44,100	33	34,500	24.5		
382	4600	3.61	63,900	58	60,500	54	57,100	50	53,500	46	49,500	41	41,000	33		
399	4800	3.93	67,600	68	64,600	64	61,200	58	58,000	54	54,500	50	46,600	42	36,900	31
415	5000	4.26	71,500	80	68,600	74	65,500	68	62,500	64	59,000	60	51,800	52	43,600	41
436	5250	4.70	76,100	94	73,400	88	70,600	82	67,600	78	64,800	72	57,900	64	50,900	54
456	5500	5.16			78,200	105	75,500	98	73,000	94	70,100	88	63,900	78	57,300	68
477	5750	5.64			82,800	120	80,400	115	77,600	110	75,200	105	69,500	94	63,500	84
498	6000	6.14			87,500	140	85,100	135	82,800	130	80,300	120	75,200	110	69,500	100
519	6250	6.66					89,800	155	87,700	150	85,100	140	80,300	130	75,200	120
540	6500	7.20					94,500	180	92,400	170	90,000	165	85,700	150	80,600	140
560	6750	7.76							97,000	195	95,000	190	90,500	175	86,000	160
581	7000	8.85							102,000	220	99,700	215	95,500	200	91,300	185
623	7500	9.59									109,000	275	105,000	255	101,000	245
664	8000	10.91											115,000	325	111,000	310
705	8500	12.32											124,000	400	121,000	380
747	9000	13.81													130,000	460
788	9500	15.40													139,000	565
830	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
436	5250	4.70	41,400	42												
456	5500	5.16	50,100	58	41,300	46										
477	5750	5.64	56,900	74	49,700	62										
498	6000	6.14	63,300	90	56,900	78	36,200	48								
519	6250	6.66	69,600	110	63,600	96	49,700	72								
540	6500	7.20	75,500	130	69,900	115	57,600	92								
560	6750	7.76	81,100	150	76,000	140	64,600	115	50,800	84						
581	7000	8.85	86,500	175	81,800	160	71,400	135	59,400	110						
623	7500	9.59	97,300	230	93,000	215	83,900	190	73,800	160	62,200	130				
664	8000	10.91	107,000	290	104,000	275	95,600	250	86,600	220	76,700	190	66,000	160		
705	8500	12.32	117,000	365	114,000	350	106,000	315	98,500	285	90,000	255	80,800	225	70,400	190
747	9000	13.81	127,000	450	124,000	430	117,000	395	110,000	365	102,000	335	94,100	300	85,300	265
788	9500	15.40	137,000	545	133,000	520	127,000	490	121,000	450	114,000	420	107,000	385	98,500	350
830	10000	17.05	146,000	650	143,000	625	137,000	585	131,000	545	125,000	515	118,000	475	111,000	440

Double Inlet

Size "L" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
73	1000	0.171	10,500	0.395												
88	1200	0.246	17,400	1.00												
103	1400	0.334	23,000	1.85	14,300	1.05										
118	1600	0.436	28,100	3.1	21,400	2.15										
132	1800	0.552	33,000	4.7	27,600	3.65	20,900	2.60								
147	2000	0.682			33,000	5.5	27,500	4.35	21,100	3.15						
162	2200	0.825			38,300	7.9	29,700	6.6	28,100	5.3	22,000	3.95				
176	2400	0.981			43,100	11.0	39,000	9.3	34,700	8.0	29,600	6.6	23,500	4.95		
191	2600	1.15			48,000	14.5	44,300	12.5	40,600	11.0	36,100	9.7	31,500	8.2	25,800	6.4
206	2800	1.34					49,400	16.5	46,000	15.0	42,400	13.5	38,100	12	33,800	10.0
220	3000	1.54					54,200	21.5	51,100	19.5	48,000	17.5	44,300	16	40,300	14.5
235	3200	1.75					59,200	27	56,300	25	53,300	23	50,000	20	46,400	19.0
250	3400	1.97							61,100	31	58,500	29	55,500	27	52,400	24.5
264	3600	2.21							66,000	38	63,400	35	60,800	33	57,800	31
279	3800	2.46							70,500	45	68,300	43	65,800	41	63,400	38
294	4000	2.73									73,100	52	70,900	49	68,500	46
309	4200	3.01									78,000	62	75,700	58	73,500	56
323	4400	3.30											80,600	68	78,500	66
338	4600	3.61											85,100	80	83,400	78
353	4800	3.93													88,100	90

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
206	2800	1.34	28,600	8.3												
220	3000	1.54	36,300	12.5	23,400	7.7										
235	3200	1.75	42,900	17.5	35,000	13.5										
250	3400	1.97	49,300	23	42,100	19	33,500	14.5								
264	3600	2.21	55,000	29	48,700	25	41,700	20.5	32,200	15.0						
279	3800	2.46	60,600	36	55,000	32	48,600	27	41,600	22.5	29,600	15.5				
294	4000	2.73	66,100	44	60,900	40	55,200	35	49,100	30	42,100	25				
309	4200	3.01	71,200	54	66,500	48	61,300	43	55,800	39	49,600	34				
323	4400	3.30	76,400	64	71,700	58	67,200	52	62,000	48	56,100	43	43,900	31		
338	4600	3.61	81,400	74	77,100	68	72,800	64	68,200	58	63,000	52	52,200	42		
353	4800	3.93	86,100	86	82,400	80	78,000	74	74,000	78	69,400	64	59,500	54	47,100	40
368	5000	4.26	91,100	100	87,400	94	83,500	88	79,500	82	75,100	76	66,000	66	55,600	54
386	5250	4.70	97,100	120	93,600	110	90,000	105	86,100	100	82,500	94	73,800	82	64,900	70
404	5500	5.16			100,000	130	96,100	125	93,000	120	89,400	110	81,300	100	73,000	86
423	5750	5.64			106,000	155	103,000	145	99,000	140	95,900	130	88,600	120	80,900	105
441	6000	6.14			112,000	180	109,000	170	106,000	165	102,000	155	95,900	140	88,600	130
459	6250	6.66					114,000	195	112,000	190	109,000	180	102,000	165	95,900	150
478	6500	7.20					121,000	225	118,000	215	115,000	210	109,000	195	103,000	180
496	6750	7.76							124,000	250	121,000	210	115,000	220	110,000	210
514	7000	8.85							130,000	280	127,000	275	122,000	255	116,000	240
551	7500	9.59									139,000	350	134,000	330	129,000	310
588	8000	10.91											146,000	410	142,000	390
625	8500	12.32											158,000	510	154,000	485
661	9000	13.81													166,000	595
698	9500	15.40													178,000	720
734	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
386	5250	4.70	52,800	54												
404	5500	5.16	63,900	74	52,600	58										
423	5750	5.64	72,500	94	63,300	80										
441	6000	6.14	80,600	115	72,500	100	46,200	62								
459	6250	6.66	88,600	140	81,000	125	63,300	92								
478	6500	7.20	96,200	165	89,000	150	73,500	120								
496	6750	7.76	103,000	190	97,000	175	82,400	145	64,700	110						
514	7000	8.85	110,000	220	104,000	205	91,000	175	75,700	140						
551	7500	9.59	124,000	290	119,000	275	107,000	240	94,000	205	79,400	165				
588	8000	10.91	137,000	370	132,000	354	122,000	320	110,000	280	98,000	240	84,300	200		
625	8500	12.32	150,000	465	145,000	445	136,000	405	126,000	365	115,000	325	103,000	290	89,600	245
661	9000	13.81	162,000	570	158,000	550	149,000	505	140,000	465	131,000	425	120,000	380	109,000	340
698	9500	15.40	174,000	690	170,000	665	162,000	620	154,000	575	145,000	535	136,000	490	126,000	445
734	10000	17.05	186,000	825	182,000	800	175,000	750	167,000	700	159,000	655	150,000	610	142,000	565

Double Inlet **Single Width**

Size "M" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H.P.
66	1000	0.171	13,100	0.49												
79	1200	0.246	21,600	1.25												
92	1400	0.334	28,600	2.30	17,800	1.3										
105	1600	0.436	35,000	3.85	26,700	2.7										
118	1800	0.552	41,100	4.25	34,300	4.5	26,000	3.2								
132	2000	0.682			41,100	6.9	34,300	5.4	26,200	3.9						
145	2200	0.825			47,600	9.8	41,900	8.2	35,000	6.6	27,400	4.9				
158	2400	0.981			53,700	13.5	48,500	11.5	43,200	10.0	36,900	8.2	29,200	6.2		
171	2600	1.15			59,700	18	55,200	16	50,500	14.0	45,000	12	39,200	10.0	32,100	8.0
184	2800	1.34					61,500	21	57,400	18.5	52,700	17	47,400	14.5	42,000	12.5
197	3000	1.54					67,500	27	63,600	24	59,700	22	55,100	20	50,100	18.0
210	3200	1.75					73,600	34	70,100	31	66,300	28	62,300	26	57,700	23.5
224	3400	1.97							76,100	39	72,700	36	69,100	33	65,200	31
237	3600	2.21							82,100	47	78,900	44	75,600	41	72,000	39
250	3800	2.46							87,900	56	85,000	54	81,900	50	78,900	48
263	4000	2.73									91,000	64	88,100	60	85,100	58
276	4200	3.01									97,100	76	94,400	72	91,400	70
290	4400	3.30											100,000	86	97,700	82
303	4600	3.61											106,000	100	104,000	96
316	4800	3.93													110,000	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
184	2800	1.34	35,600	10.5												
197	3000	1.54	45,100	15.5	20,200	9.7										
210	3200	1.75	53,400	21.5	43,600	16.5										
224	3400	1.97	61,400	29	52,400	23.5	41,900	18								
237	3600	2.21	68,400	36	60,600	31	52,000	26	40,100	19						
250	3800	2.46	75,500	45	68,500	40	60,500	34	51,800	28	36,900	19.5				
263	4000	2.73	82,100	56	75,900	49	68,800	44	61,200	38	52,400	31				
276	4200	3.01	88,600	66	82,800	60	76,300	54	69,400	48	61,800	42				
290	4400	3.30	95,000	78	89,400	72	83,700	66	77,300	60	70,000	52	54,700	39		
303	4600	3.61	101,000	92	96,100	86	90,600	78	85,000	72	78,500	66	65,100	52		
316	4800	3.93	107,000	110	102,000	100	97,000	92	92,000	86	86,400	80	74,000	66	58,600	50
329	5000	4.26	114,000	125	109,000	115	103,000	110	99,100	100	93,600	94	82,200	82	69,200	66
345	5250	4.70	121,000	150	116,000	140	112,000	130	107,000	125	103,000	115	91,900	100	80,800	86
362	5500	5.16			124,000	165	120,000	155	116,000	150	111,000	140	101,000	125	90,900	110
378	5750	5.64			131,000	190	128,000	185	123,000	175	119,000	165	110,000	150	101,000	130
395	6000	6.14			139,000	220	135,000	215	131,000	205	127,000	195	119,000	175	110,000	160
411	6250	6.66					142,000	245	139,000	240	135,000	225	127,000	205	119,000	190
428	6500	7.20					150,000	280	147,000	270	143,000	260	136,000	240	128,000	220
444	6750	7.76							154,000	310	151,000	300	144,000	275	136,000	255
460	7000	8.85							162,000	350	158,000	340	152,000	315	145,000	295
494	7500	9.59									173,000	435	167,000	410	161,000	385
526	8000	10.91											182,000	515	176,000	490
560	8500	12.32											197,000	635	192,000	605
592	9000	13.81													207,000	745
625	9500	15.40													221,000	895
659	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
345	5250	4.70	65,700	68												
362	5500	5.16	79,500	92	65,500	72										
378	5750	5.64	90,400	115	78,900	98										
395	6000	6.14	100,000	140	90,200	125	57,500	76								
411	6250	6.66	110,000	170	101,000	155	78,900	115								
428	6500	7.20	120,000	205	111,000	185	91,500	145								
444	6750	7.76	129,000	240	121,000	220	103,000	180	80,600	135						
460	7000	8.85	137,000	275	130,000	255	113,000	215	94,400	175						
494	7500	9.59	154,000	360	148,000	340	133,000	300	112,000	255	98,800	210				
526	8000	10.91	171,000	465	165,000	440	152,000	395	138,000	350	122,000	300	105,000	250		
560	8500	12.32	186,000	580	181,000	555	169,000	505	156,000	455	143,000	405	128,000	360	112,000	300
592	9000	13.81	202,000	715	196,000	680	185,000	630	174,000	580	163,000	530	149,000	475	135,000	425
625	9500	15.40	217,000	860	212,000	830	202,000	775	191,000	715	181,000	665	169,000	610	156,000	555
659	10000	17.05	231,000	1030	227,000	995	218,000	930	208,000	870	198,000	815	187,000	755	176,000	700

Double Inlet

Size "N" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
60	1000	0.171	15,900	0.60												
72	1200	0.246	20,300	1.50												
81	1400	0.334	31,800	2.85	21,600	1.55										
95	1600	0.436	42,500	4.7	32,500	3.25										
107	1800	0.552	50,000	7.1	41,700	5.5	31,600	3.9								
119	2000	0.682			50,000	8.4	41,700	6.6	31,900	4.75						
131	2200	0.825			57,900	12.0	51,000	10	42,500	8.0	33,300	5.9				
143	2400	0.981			65,400	16.5	59,100	14	52,600	12.0	44,900	10.0	35,600	7.5		
155	2600	1.15			72,600	22	67,100	19	61,500	17.0	54,600	14.5	47,600	12.5	39,000	9.7
167	2800	1.34					74,900	25	69,600	22.5	64,100	20.5	57,700	17.5	51,100	15.5
179	3000	1.54					82,200	32	77,400	29	72,600	27	67,100	24.5	61,000	22
191	3200	1.75					89,600	41	85,100	38	80,600	35	75,900	32	70,300	29
203	3400	1.97							92,500	47	88,500	44	84,100	40	79,400	37
215	3600	2.21							100,000	58	96,000	54	92,100	50	87,500	47
227	3800	2.46							107,000	68	103,000	66	99,700	62	96,000	58
239	4000	2.73									111,000	78	107,000	74	104,000	70
251	4200	3.01									118,000	92	115,000	88	111,000	84
263	4400	3.30											122,000	105	119,000	100
274	4600	3.61											129,000	120	126,000	115
286	4800	3.93													133,000	135

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
167	2800	1.34	43,300	12.5												
179	3000	1.54	54,900	19	35,400	11.5										
191	3200	1.75	65,000	26	53,000	20.5										
203	3400	1.97	74,600	35	63,800	29	51,000	22								
215	3600	2.21	83,300	44	73,900	38	63,200	31	48,800	23						
227	3800	2.46	91,700	54	83,300	48	73,500	42	63,000	34	44,900	24				
239	4000	2.73	100,000	66	92,400	60	83,600	52	74,400	46	63,800	38				
251	4200	3.01	108,000	80	101,000	74	92,900	66	84,500	58	75,200	50				
263	4400	3.30	116,000	96	109,000	88	102,000	80	94,000	72	85,000	64	68,500	47		
274	4600	3.61	123,000	115	117,000	105	110,000	96	103,000	88	95,500	80	79,100	64		
286	4800	3.93	130,000	130	125,000	120	118,000	110	112,000	105	105,000	96	90,000	80	71,300	60
298	5000	4.26	138,000	150	133,000	140	126,000	130	121,000	125	114,000	115	100,000	98	84,200	80
313	5250	4.70	147,000	180	142,000	170	136,000	160	131,000	150	125,000	140	112,000	125	98,200	105
328	5500	5.16			151,000	200	146,000	190	141,000	180	135,000	170	123,000	150	110,000	130
343	5750	5.64			160,000	235	155,000	220	150,000	210	145,000	200	134,000	180	122,000	160
358	6000	6.14			169,000	270	164,000	260	160,000	245	155,000	235	145,000	215	134,000	195
373	6250	6.66					173,000	300	169,000	290	164,000	275	155,000	250	145,000	230
388	6500	7.20					183,000	340	178,000	330	174,000	315	165,000	295	156,000	270
403	6750	7.76							187,000	375	183,000	365	175,000	335	166,000	315
418	7000	8.85							196,000	425	192,000	415	184,000	385	176,000	360
448	7500	9.59									211,000	530	203,000	495	196,000	470
477	8000	10.91											221,000	625	215,000	595
507	8500	12.32											239,000	770	233,000	735
536	9000	13.81													251,000	905
567	9500	15.40													269,000	1090
596	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
313	5250	4.70	80,000	82												
328	5500	5.16	96,700	110	79,800	88										
343	5750	5.64	110,000	140	96,000	120										
358	6000	6.14	122,000	175	110,000	150	69,900	94								
373	6250	6.66	134,000	210	123,000	185	96,000	140								
388	6500	7.20	146,000	250	135,000	225	110,000	180								
403	6750	7.76	157,000	290	147,000	265	125,000	220	98,000	165						
418	7000	8.85	167,000	335	158,000	310	138,000	265	115,000	210						
448	7500	9.59	188,000	440	179,000	415	162,000	365	142,000	310	120,000	250				
477	8000	10.91	207,000	565	200,000	535	185,000	480	167,000	425	148,000	365	127,000	305		
507	8500	12.32	226,000	705	220,000	675	205,000	610	190,000	555	174,000	495	156,000	435	136,000	370
536	9000	13.81	245,000	865	239,000	830	225,000	765	212,000	705	198,000	645	182,000	580	165,000	515
567	9500	15.40	264,000	1050	258,000	1010	246,000	940	233,000	870	220,000	805	206,000	740	190,000	675
596	10000	17.05	282,000	1250	276,000	1210	265,000	1130	253,000	1060	240,000	990	227,000	920	214,000	850

Double Inlet — # Size "P" Supervane Fan—Design 1 — **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
54	1000	0.171	19,100	0.71												
65	1200	0.246	31,500	1.8												
76	1400	0.334	41,700	3.4	25,900	1.9										
87	1600	0.436	51,000	5.6	38,900	3.9										
98	1800	0.552	59,900	8.5	50,000	6.6	37,900	4.7								
109	2000	0.682			59,900	10.0	50,000	7.9	38,200	5.7						
120	2200	0.825			69,400	14.5	61,100	12	51,000	9.6	40,000	7.1				
131	2400	0.981			78,400	19.5	70,900	17	63,000	14.5	53,800	12.0	42,600	9.0		
142	2600	1.15			87,100	26	80,500	23	73,600	20.5	65,600	17.5	57,100	15.0	46,800	11.5
153	2800	1.34					89,000	30	83,500	27	77,000	21.5	69,100	21.5	61,300	18.5
164	3000	1.54					98,500	39	92,800	35	87,100	32	80,500	29	73,100	26
174	3200	1.75					107,000	50	102,000	45	96,800	41	90,900	38	84,300	35
185	3400	1.97							111,000	56	106,000	52	101,000	48	95,100	45
196	3600	2.21							120,000	68	115,000	64	110,000	60	105,000	56
207	3800	2.46							128,000	82	124,000	78	119,000	74	115,000	70
218	4000	2.73									133,000	94	129,000	90	124,000	84
229	4200	3.01									142,000	110	138,000	105	133,000	100
240	4400	3.30											146,000	125	143,000	120
251	4600	3.61											155,000	145	151,000	140
262	4800	3.93													160,000	165

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
153	2800	1.34	52,000	15												
164	3000	1.54	65,900	23	42,500	14.0										
174	3200	1.75	77,900	31	63,500	24.5										
185	3400	1.97	89,500	42	76,500	34	61,100	26								
196	3600	2.21	99,700	52	88,500	45	75,800	38	58,500	28						
207	3800	2.46	110,000	66	99,900	58	88,000	50	75,500	41	53,800	29				
218	4000	2.73	120,000	80	111,000	72	100,000	64	89,200	56	76,500	46				
229	4200	3.01	129,000	96	121,000	88	111,000	78	101,000	70	90,200	62				
240	4400	3.30	139,000	115	130,000	105	122,000	96	113,000	86	102,000	78	79,800	56		
251	4600	3.61	148,000	135	140,000	125	132,000	115	124,000	105	114,000	96	95,000	76		
262	4800	3.93	156,000	155	150,000	145	142,000	135	134,000	125	126,000	115	108,000	96	85,500	72
273	5000	4.26	166,000	180	159,000	170	152,000	160	144,000	150	136,000	140	120,000	120	101,000	96
286	5250	4.70	176,000	215	170,000	205	164,000	190	156,000	180	150,000	170	134,000	145	118,000	125
300	5500	5.16			181,000	240	175,000	225	169,000	215	162,000	205	148,000	180	132,000	160
314	5750	5.64			192,000	280	186,000	270	180,000	255	174,000	240	161,000	215	147,000	195
327	6000	6.14			202,000	325	197,000	310	191,000	295	186,000	285	174,000	255	161,000	235
341	6250	6.66					208,000	360	203,000	350	197,000	330	186,000	300	174,000	275
354	6500	7.20					219,000	410	213,000	395	208,000	380	198,000	350	186,000	325
368	6750	7.76							224,000	450	220,000	435	209,000	405	199,000	375
382	7000	8.85							235,000	510	231,000	495	221,000	460	211,000	430
409	7500	9.59									253,000	635	244,000	595	234,000	560
436	8000	10.91											266,000	750	257,000	715
464	8500	12.32											287,000	920	280,000	885
490	9000	13.81													302,000	1080
518	9500	15.40													322,000	1300
545	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
286	5250	4.70	98,000	98												
300	5500	5.16	116,000	135	95,500	105										
314	5750	5.64	132,000	170	115,000	145										
327	6000	6.14	146,000	205	132,000	180	83,800	110								
341	6250	6.66	161,000	250	147,000	225	115,000	165								
354	6500	7.20	175,000	295	162,000	270	133,000	215								
368	6750	7.76	188,000	350	176,000	320	150,000	265	118,000	195						
382	7000	8.85	200,000	400	189,000	375	165,000	315	138,000	255						
409	7500	9.59	225,000	530	215,000	500	194,000	435	171,000	370	144,000	300				
436	8000	10.91	249,000	675	240,000	640	221,000	575	201,000	510	178,000	435	153,000	365		
464	8500	12.32	271,000	845	264,000	805	248,000	735	228,000	665	208,000	590	187,000	520	163,000	440
490	9000	13.81	294,000	1040	286,000	995	270,000	915	254,000	845	237,000	770	218,000	695	197,000	620
518	9500	15.40	316,000	1260	309,000	1210	294,000	1130	279,000	1040	264,000	970	247,000	890	228,000	810
545	10000	17.05	337,000	1500	331,000	1450	318,000	1300	303,000	1270	288,000	1190	273,000	1100	257,000	1020

Double Inlet **Single Width**

Size "Q" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
50	1000	0.171	22,500	0.84												
60	1200	0.246	37,100	2.15												
70	1400	0.334	49,100	4.0	30,500	2.2										
80	1600	0.436	60,000	6.6	45,800	4.6										
90	1800	0.552	70,600	10	59,000	7.8	44,600	5.5								
100	2000	0.682			70,600	12	59,000	9.4	45,000	6.7						
111	2200	0.825			81,700	17	72,000	14	60,100	11.5	47,100	8.4				
121	2400	0.981			92,400	23	83,400	20	74,300	17	63,400	11.0	50,100	10.5		
131	2600	1.15			103,000	31	94,800	27	86,700	24	77,200	20.5	67,300	17.5	55,100	13.5
141	2800	1.34					106,000	36	98,500	32	90,800	29	81,500	25	72,300	22
151	3000	1.54					116,000	46	109,000	42	103,000	38	94,800	34	86,100	31
161	3200	1.75					126,000	58	120,000	52	114,000	49	107,000	45	99,300	41
171	3400	1.97							131,000	66	125,000	62	119,000	56	112,000	52
181	3600	2.21							141,000	80	136,000	76	130,000	72	124,000	66
191	3800	2.46							151,000	96	146,000	92	141,000	86	135,000	82
201	4000	2.73									156,000	110	152,000	105	146,000	100
211	4200	3.01									167,000	130	162,000	125	157,000	120
221	4400	3.30											172,000	145	168,000	140
231	4600	3.61											183,000	170	178,000	165
241	4800	3.93													188,000	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
141	2800	1.34	61,100	18												
151	3000	1.54	77,500	27	50,000	16.5										
161	3200	1.75	91,800	37	74,800	29										
171	3400	1.97	105,000	49	90,100	40	72,000	31								
181	3600	2.21	118,000	62	104,000	54	89,300	44	69,000	32						
191	3800	2.46	130,000	76	118,000	68	104,000	58	89,000	48	63,400	34				
201	4000	2.73	141,000	94	130,000	84	118,000	74	105,000	66	90,000	54				
211	4200	3.01	152,000	115	142,000	105	131,000	92	119,000	82	106,000	72				
221	4400	3.30	163,000	135	153,000	125	144,000	115	133,000	100	120,000	90	94,000	68		
231	4600	3.61	174,000	160	165,000	145	156,000	135	146,000	125	135,000	115	112,000	90		
241	4800	3.93	184,000	185	179,000	170	167,000	160	158,000	150	148,000	135	127,000	115	101,000	86
251	5000	4.26	195,000	215	187,000	200	178,000	185	170,000	175	160,000	160	141,000	140	119,000	115
264	5250	4.70	208,000	250	200,000	240	193,000	225	184,000	210	176,000	200	158,000	175	139,000	150
276	5500	5.16			213,000	280	206,000	270	199,000	255	191,000	240	174,000	215	156,000	185
289	5750	5.64			226,000	330	219,000	315	212,000	300	205,000	285	189,000	255	173,000	225
302	6000	6.14			238,000	380	232,000	365	226,000	350	219,000	335	205,000	305	190,000	275
314	6250	6.66					244,000	420	239,000	410	232,000	390	219,000	355	205,000	325
327	6500	7.20					258,000	485	252,000	465	245,000	445	233,000	415	220,000	380
339	6750	7.76							265,000	530	259,000	515	246,000	475	234,000	440
352	7000	8.85							278,000	600	272,000	585	260,000	545	249,000	510
377	7500	9.59									297,000	745	287,000	700	276,000	660
402	8000	10.91											313,000	880	303,000	840
427	8500	12.32											338,000	1090	329,000	1040
452	9000	13.81													355,000	1280
478	9500	15.40													379,000	1530
503	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
264	5250	4.70	113,000	115												
276	5500	5.16	137,000	160	113,000	125										
289	5750	5.64	155,000	200	135,000	170										
302	6000	6.14	172,000	245	155,000	215	98,600	130								
314	6250	6.66	190,000	295	173,000	265	135,000	195								
327	6500	7.20	206,000	350	190,000	320	157,000	250								
339	6750	7.76	221,000	410	207,000	375	176,000	310	138,000	230						
352	7000	8.85	236,000	475	223,000	440	194,000	370	162,000	300						
377	7500	9.59	265,000	625	253,000	585	228,000	515	201,000	440	170,000	355				
402	8000	10.91	293,000	795	282,000	755	261,000	680	236,000	595	210,000	515	180,000	430		
427	8500	12.32	321,000	995	310,000	950	290,000	865	268,000	780	245,000	695	220,000	615	192,000	520
452	9000	13.81	346,000	1220	337,000	1170	318,000	1080	299,000	995	279,000	910	256,000	815	232,000	730
478	9500	15.40	372,000	1480	364,000	1420	347,000	1330	329,000	1230	310,000	1140	290,000	1050	269,000	955
503	10000	17.05	397,000	1760	390,000	1710	374,000	1600	357,000	1490	340,000	1400	321,000	1300	302,000	1200

Double Inlet

Size "R" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
45	1000	0.171	27,500	1.05												
55	1200	0.246	45,200	2.60												
64	1400	0.334	59,900	4.85	37,200	2.7										
73	1600	0.436	73,200	8.1	55,900	5.6										
82	1800	0.552	86,100	12.5	71,900	9.5	51,400	6.7								
91	2000	0.682			86,100	14.5	71,900	11.5	54,900	8.2						
100	2200	0.825			99,500	20.5	87,900	17	73,200	14	57,500	10.0				
109	2400	0.984			113,000	28	102,000	24	90,500	21	73,300	17.5	61,200	13.0		
118	2600	1.15			125,000	37	116,000	33	106,000	29	94,200	25	82,000	21.5	67,200	16.5
127	2800	1.34					129,000	44	120,000	39	111,000	35	99,400	31	88,100	27
136	3000	1.54					142,000	56	133,000	50	125,000	46	116,000	42	105,000	37
145	3200	1.75					154,000	72	147,000	64	139,000	60	131,000	54	121,000	50
155	3400	1.97							159,000	80	153,000	74	145,000	70	137,000	64
164	3600	2.21							172,000	98	165,000	92	159,000	86	151,000	82
173	3800	2.46							184,000	120	178,000	110	172,000	105	165,000	100
182	4000	2.73									191,000	135	185,000	130	178,000	120
191	4200	3.01									204,000	160	198,000	150	192,000	145
200	4400	3.30											210,000	180	205,000	170
209	4600	3.61											222,000	210	218,000	200
218	4800	3.93													230,000	235

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
127	2800	1.34	74,600	21.5												
136	3000	1.54	94,500	33	61,000	20										
145	3200	1.75	112,000	45	91,100	35										
155	3400	1.97	128,000	60	110,000	49	87,000	37								
164	3600	2.21	143,000	76	127,000	64	109,000	54	84,100	40						
173	3800	2.46	158,000	94	143,000	82	127,000	72	108,000	60	77,300	41				
182	4000	2.73	172,000	115	159,000	105	144,000	92	128,000	80	110,000	66				
191	4200	3.01	186,000	140	174,000	125	160,000	115	145,000	100	130,000	88				
200	4400	3.30	199,000	165	187,000	150	175,000	140	162,000	125	147,000	110	115,000	82		
209	4600	3.61	212,000	195	201,000	180	190,000	165	178,000	150	164,000	140	136,000	110		
218	4800	3.93	225,000	225	215,000	210	203,000	195	193,000	180	181,000	165	155,000	140	123,000	105
228	5000	4.26	238,000	260	228,000	245	218,000	230	208,000	215	196,000	200	172,000	170	145,000	135
239	5250	4.70	253,000	310	244,000	290	235,000	275	225,000	260	215,000	245	192,000	210	169,000	180
250	5500	5.16			260,000	345	251,000	325	242,000	310	233,000	290	212,000	260	190,000	225
262	5750	5.64			275,000	400	267,000	385	258,000	365	250,000	345	231,000	310	211,000	275
273	6000	6.14			291,000	465	283,000	445	275,000	425	267,000	405	250,000	370	231,000	335
284	6250	6.66					298,000	515	291,000	500	283,000	475	267,000	435	250,000	400
296	6500	7.20					314,000	590	307,000	565	299,000	545	285,000	505	268,000	465
307	6750	7.76							323,000	645	316,000	625	301,000	580	286,000	540
318	7000	8.85							338,000	735	331,000	710	317,000	665	303,000	620
341	7500	9.59									363,000	910	350,000	855	337,000	805
364	8000	10.91											382,000	1070	370,000	1020
386	8500	12.32											412,000	1330	401,000	1270
409	9000	13.81													433,000	1560
432	9500	15.40													463,000	1870
455	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
239	5250	4.70	138,000	140												
250	5500	5.16	167,000	195	137,000	150										
262	5750	5.64	189,000	245	165,000	205										
272	6000	6.14	210,000	300	189,000	260	120,000	160								
284	6250	6.66	231,000	360	211,000	320	165,000	240								
296	6500	7.20	251,000	425	232,000	390	191,000	310								
307	6750	7.76	269,000	500	253,000	460	215,000	380	169,000	280						
318	7000	8.85	287,000	580	272,000	540	237,000	455	198,000	365						
341	7500	9.59	323,000	760	309,000	715	279,000	625	245,000	535	207,000	435				
364	8000	10.91	357,000	970	345,000	925	318,000	825	288,000	730	255,000	625	220,000	525		
386	8500	12.32	390,000	1210	378,000	1160	354,000	1050	327,000	955	299,000	850	268,000	750	234,000	635
409	9000	13.81	422,000	1490	411,000	1430	388,000	1310	365,000	1210	341,000	1110	313,000	995	284,000	890
432	9500	15.40	454,000	1800	443,000	1740	423,000	1620	401,000	1500	379,000	1390	354,000	1280	327,000	1160
455	10000	17.05	485,000	2150	475,000	2080	456,000	1950	435,000	1820	414,000	1700	392,000	1590	369,000	1470

Double Inlet

Size "S" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continnously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
41	1000	0.171	32,900	1.25												
50	1200	0.246	54,200	3.1												
58	1400	0.334	71,900	5.8	44,600	3.25										
66	1600	0.436	87,900	9.7	67,100	6.8										
75	1800	0.552	103,000	14.5	86,200	11.5	65,200	8.1								
83	2000	0.682			102,000	17.0	86,100	13.5	65,800	9.8						
91	2200	0.825			120,000	24.5	105,000	20.5	87,700	16.5	68,800	12.5				
100	2400	0.981			135,000	34	122,000	29	108,000	25	92,600	20.5	73,400	15.5		
108	2600	1.15			150,000	45	139,000	40	127,000	35	113,000	30	98,300	26	80,600	20
116	2800	1.34					154,000	52	141,000	47	133,000	42	119,000	37	106,000	32
125	3000	1.54					169,000	66	160,000	60	150,000	56	139,000	50	126,000	45
133	3200	1.75					185,000	86	176,000	78	167,000	72	157,000	66	145,000	60
141	3400	1.97							191,000	96	183,000	90	174,000	84	164,000	78
149	3600	2.21							206,000	120	198,000	110	190,000	105	181,000	98
158	3800	2.46							221,000	140	213,000	135	206,000	125	198,000	120
166	4000	2.73									229,000	160	221,000	155	214,000	145
174	4200	3.01									244,000	190	237,000	185	230,000	175
183	4400	3.30											252,000	215	246,000	205
191	4600	3.61											267,000	250	261,000	240
199	4800	3.93													276,000	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Watc. .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
116	2800	1.34	89,400	26												
125	3000	1.54	113,000	39	73,100	24										
133	3200	1.75	134,000	51	109,000	42										
141	3400	1.97	154,000	72	132,000	60	105,000	45								
149	3600	2.21	172,000	90	152,000	78	130,000	64	101,000	47						
158	3800	2.46	190,000	115	172,000	100	152,000	86	130,000	70	92,600	49				
166	4000	2.73	206,000	140	190,000	125	173,000	110	153,000	96	132,000	78				
174	4200	3.01	223,000	165	208,000	150	192,000	135	174,000	120	155,000	105				
183	4400	3.30	248,000	195	224,000	180	210,000	165	194,000	150	175,000	135	137,000	98		
191	4600	3.61	254,000	235	241,000	215	228,000	200	213,000	180	197,000	165	163,000	130		
199	4800	3.93	269,000	270	258,000	250	244,000	235	231,000	215	217,000	200	186,000	165	147,000	125
208	5000	4.26	285,000	315	274,000	290	261,000	275	248,000	255	239,000	235	206,000	205	174,000	165
218	5250	4.70	303,000	370	292,000	350	281,000	330	269,000	310	258,000	290	230,000	255	203,000	215
228	5500	5.16			312,000	415	300,000	390	290,000	370	279,000	350	254,000	310	228,000	270
239	5750	5.64			330,000	480	320,000	460	309,000	435	299,000	415	276,000	375	253,000	330
249	6000	6.14			349,000	560	339,000	535	329,000	510	319,000	485	299,000	445	276,000	400
260	6250	6.66					358,000	615	349,000	600	339,000	565	320,000	520	299,000	475
270	6500	7.20					377,000	710	367,000	680	358,000	655	341,000	605	321,000	555
280	6750	7.76							386,000	775	378,000	750	360,000	695	342,000	645
291	7000	8.85							405,000	880	397,000	855	380,000	795	363,000	740
312	7500	9.59									434,000	1090	419,000	1020	403,000	965
332	8000	10.91											457,000	1290	442,000	1230
353	8500	12.32											494,000	1590	481,000	1520
374	9000	13.81													518,000	1860
394	9500	15.40													555,000	2240
415	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
218	5250	4.70	165,000	170												
228	5500	5.16	199,000	230	164,000	180										
239	5750	5.64	227,000	290	198,000	245										
249	6000	6.14	252,000	355	226,000	315	144,000	190								
260	6250	6.66	277,000	430	253,000	385	198,000	285								
270	6500	7.20	300,000	510	278,000	465	229,000	370								
280	6750	7.76	323,000	600	302,000	550	257,000	450	202,000	335						
291	7000	8.85	344,000	690	326,000	645	284,000	545	237,000	435						
312	7500	9.59	387,000	910	370,000	855	334,000	750	293,000	640	248,000	520				
332	8000	10.91	427,000	1160	413,000	1100	381,000	990	345,000	870	305,000	750	263,000	630		
353	8500	12.32	467,000	1450	453,000	1390	423,000	1260	392,000	1140	358,000	1020	322,000	895	280,000	760
374	9000	13.81	505,000	1780	492,000	1710	465,000	1570	437,000	1450	408,000	1330	374,000	1190	340,000	1060
394	9500	15.40	544,000	2160	531,000	2080	507,000	1940	480,000	1790	454,000	1660	424,000	1530	392,000	1390
415	10000	17.05	548,000	2580	569,000	2500	546,000	2330	521,000	2180	496,000	2040	469,000	1900	441,000	1700

Double Inlet **Single Width**

Size "T" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
38	1000	0.171	38,900	1.15												
46	1200	0.246	64,100	3.7												
53	1400	0.334	84,900	6.9	52,600	3.85										
61	1600	0.436	104,000	11.5	79,300	8.0										
69	1800	0.552	122,000	17.5	102,000	19.5	77,100	9.6								
76	2000	0.682			122,000	20.5	102,000	16.0	77,900	11.5						
84	2200	0.825			141,000	29	124,000	21.5	104,000	19.5	81,300	14.5				
92	2400	0.981			159,000	40	144,000	34	128,000	30	110,000	24.5	86,600	18.5		
99	2600	1.15			177,000	54	164,000	47	150,000	42	133,000	36	116,000	30	95,300	23.5
107	2800	1.34					183,000	62	170,000	56	157,000	50	141,000	44	125,000	38
115	3000	1.54					200,000	78	189,000	72	177,000	66	164,000	60	149,000	54
122	3200	1.75					218,000	100	208,000	92	197,000	84	185,000	78	172,000	70
130	3400	1.97							226,000	115	216,000	105	205,000	98	193,000	92
138	3600	2.21							244,000	140	234,000	130	225,000	125	214,000	115
145	3800	2.46							261,000	165	252,000	160	243,000	150	234,000	140
153	4000	2.73									270,000	190	262,000	180	253,000	170
160	4200	3.01									288,000	235	280,000	215	271,000	205
168	4400	3.30											298,000	255	290,000	245
176	4600	3.61											315,000	295	308,000	285
183	4800	3.93													326,000	330

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
107	2800	1.34	106,000	31												
115	3000	1.54	134,000	46	86,500	29										
122	3200	1.75	158,000	64	129,000	50										
130	3400	1.97	183,000	84	156,000	70	124,000	54								
138	3600	2.21	203,000	105	180,000	92	154,000	76	119,000	56						
145	3800	2.46	224,000	135	203,000	115	180,000	100	154,000	84	109,000	58				
153	4000	2.73	244,000	165	225,000	145	204,000	130	181,000	110	156,000	92				
160	4200	3.01	263,000	195	246,000	180	227,000	160	206,000	145	183,000	125				
168	4400	3.30	282,000	235	265,000	215	248,000	195	229,000	175	207,000	155	162,000	115		
176	4600	3.61	301,000	275	285,000	255	269,000	235	252,000	215	233,000	195	193,000	155		
183	4800	3.93	319,000	320	304,000	300	288,000	275	273,000	255	256,000	235	219,000	195	174,000	145
191	5000	4.26	337,000	370	323,000	345	308,000	325	294,000	300	277,000	280	214,000	240	205,000	195
201	5250	4.70	358,000	440	346,000	415	333,000	390	318,000	365	305,000	345	273,000	300	239,000	255
210	5500	5.16			369,000	490	356,000	460	343,000	440	330,000	415	301,000	370	269,000	320
220	5750	5.64			390,000	570	379,000	545	365,000	515	354,000	490	327,000	440	299,000	390
229	6000	6.14			412,000	660	401,000	630	389,000	605	378,000	575	354,000	525	327,000	475
239	6250	6.66					423,000	730	413,000	705	401,000	670	378,000	615	354,000	585
248	6500	7.20					445,000	835	434,000	800	424,000	775	403,000	715	379,000	660
258	6750	7.76							457,000	915	447,000	885	426,000	820	405,000	765
268	7000	8.85							470,000	1040	469,000	1010	449,000	940	430,000	880
286	7500	9.59									514,000	1290	495,000	1210	477,000	1140
306	8000	10.91											540,000	1520	523,000	1450
325	8500	12.32											584,000	1880	569,000	1790
344	9000	13.81													614,000	2200
363	9500	15.40													656,000	2650
382	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
201	5250	4.70	195,000	200												
210	5500	5.16	236,000	275	194,000	215										
220	5750	5.64	268,000	345	234,000	290										
229	6000	6.14	298,000	420	267,000	370	170,000	225								
239	6250	6.66	328,000	510	299,000	455	234,000	340								
248	6500	7.20	355,000	605	329,000	550	271,000	435								
258	6750	7.76	382,000	705	358,000	650	304,000	535	239,000	395						
268	7000	8.85	407,000	820	385,000	765	336,000	645	280,000	515						
286	7500	9.59	458,000	1080	438,000	1010	395,000	885	347,000	755	293,000	615				
306	8000	10.91	505,000	1370	488,000	1310	450,000	1170	408,000	1030	361,000	890	311,000	745		
325	8500	12.32	552,000	1710	536,000	1640	501,000	1490	463,000	1350	423,000	1210	380,000	1060	331,000	895
344	9000	13.81	598,000	2110	582,000	2020	550,000	1860	518,000	1710	482,000	1570	443,000	1410	401,000	1260
363	9500	15.40	643,000	2550	628,000	2460	600,000	2290	560,000	2120	536,000	1970	501,000	1810	464,000	1650
382	10000	17.05	686,000	3050	673,000	2950	646,000	2760	616,000	2570	586,000	2410	555,000	2250	523,000	2080

Double Inlet

Size "U" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
35	1000	0.171	45,500	1.7												
42	1200	0.246	75,000	4.3												
50	1400	0.331	98,900	8.1	61,700	4.5										
57	1600	0.436	121,000	13.5	92,800	9.3										
64	1800	0.552	143,000	20.5	119,000	15.5	90,300	11								
71	2000	0.682			143,000	24	119,000	19	91,000	13.5						
78	2200	0.825			165,000	34	146,000	29	121,000	23	95,200	17				
85	2400	0.981			187,000	47	169,000	40	150,000	35	128,000	29	102,000	21.5		
92	2600	1.15			208,000	62	192,000	51	175,000	48	156,000	42	136,000	35	112,000	28
99	2800	1.34					214,000	72	199,000	64	183,000	58	165,000	50	146,000	44
106	3000	1.54					235,000	92	221,000	84	208,000	76	192,000	70	174,000	62
113	3200	1.75					256,000	120	244,000	105	230,000	98	216,000	90	201,000	82
120	3400	1.97							264,000	135	253,000	125	240,000	115	228,000	105
128	3600	2.21							285,000	165	274,000	155	263,000	145	250,000	135
135	3800	2.46							305,000	195	295,000	185	285,000	175	274,000	165
142	4000	2.73									316,000	225	306,000	210	296,000	200
149	4200	3.01									337,000	265	328,000	255	318,000	240
156	4400	3.30											348,000	295	340,000	285
163	4600	3.61											369,000	345	361,000	335
170	4800	3.93													381,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
99	2800	1.34	124,000	36												
106	3000	1.54	157,000	54	101,000	34										
113	3200	1.75	186,000	74	151,000	58										
120	3400	1.97	213,000	98	182,000	82	146,000	62								
128	3600	2.21	238,000	125	211,000	110	181,000	90	139,000	66						
135	3800	2.46	262,000	155	238,000	135	210,000	120	180,000	98	128,000	68				
142	4000	2.73	286,000	190	264,000	170	239,000	150	213,000	130	182,000	110				
149	4200	3.01	308,000	230	288,000	210	265,000	190	241,000	165	215,000	145				
156	4400	3.30	330,000	275	310,000	250	291,000	230	268,000	205	243,000	185	190,000	135		
163	4600	3.61	352,000	320	334,000	295	315,000	275	295,000	250	273,000	230	226,000	180		
170	4800	3.93	373,000	375	356,000	350	337,000	320	320,000	300	300,000	275	207,000	230	203,000	170
177	5000	4.26	394,000	435	378,000	405	361,000	380	344,000	355	325,000	330	285,000	280	240,000	230
186	5250	4.70	420,000	515	405,000	485	390,000	455	372,000	430	357,000	405	319,000	350	280,000	300
195	5500	5.16			431,000	570	416,000	540	402,000	515	386,000	485	352,000	430	315,000	375
204	5750	5.64			456,000	665	443,000	635	428,000	600	414,000	575	383,000	515	350,000	400
213	6000	6.14			482,000	775	469,000	740	456,000	705	442,000	675	414,000	615	383,000	555
222	6250	6.66					495,000	855	483,000	830	469,000	785	442,000	720	414,000	660
230	6500	7.20					521,000	980	509,000	940	496,000	905	472,000	840	444,000	770
238	6750	7.76							535,000	1070	523,000	1040	499,000	960	474,000	895
248	7000	8.85							561,000	1220	549,000	1180	526,000	1100	503,000	1030
265	7500	9.59									601,000	1510	580,000	1420	550,000	1340
283	8000	10.91											633,000	1780	612,000	1700
301	8500	12.32											684,000	2200	665,000	2100
318	9000	13.81													718,000	2580
336	9500	15.40													708,000	3100
353	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
186	5250	4.70	228,000	235												
195	5500	5.16	276,000	320	228,000	250										
204	5750	5.64	313,000	405	274,000	340										
213	6000	6.14	348,000	495	313,000	435	199,000	265								
222	6250	6.66	383,000	595	351,000	535	274,000	395								
230	6500	7.20	416,000	705	385,000	645	317,000	510								
238	6750	7.76	447,000	830	419,000	760	356,000	625	280,000	465						
248	7000	8.85	476,000	960	450,000	890	393,000	755	328,000	605						
265	7500	9.59	536,000	1260	512,000	1190	462,000	1040	406,000	885	343,000	720				
283	8000	10.91	591,000	1610	571,000	1530	526,000	1370	478,000	1210	422,000	1040	364,000	870		
301	8500	12.32	646,000	2010	628,000	1920	586,000	1750	542,000	1580	496,000	1410	445,000	1240	386,000	1050
318	9000	13.81	700,000	2470	681,000	2370	644,000	2180	605,000	2010	565,000	1840	519,000	1650	470,000	1470
336	9500	15.40	753,000	2990	735,000	2880	702,000	2690	665,000	2480	629,000	2300	587,000	2120	543,000	1930
353	10000	17.05	804,000	3570	788,000	3460	756,000	3230	721,000	3010	686,000	2830	650,000	2630	612,000	2430

Double Inlet

Size "V" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
33	1000	0.171	52,400	1.95												
39	1200	0.246	86,400	4.95												
46	1400	0.334	111,000	9.3	71,100	5.2										
53	1600	0.436	140,000	15.5	107,000	10.5										
59	1800	0.552	161,000	23.5	137,000	18	104,000	13.0								
66	2000	0.682			161,000	27	137,000	21.5	105,000	15.5						
72	2200	0.825			190,000	39	168,000	33	140,000	26	110,000	19.5				
79	2400	0.981			215,000	54	194,000	46	173,000	40	148,000	33	117,000	24.5		
86	2600	1.15			239,000	72	221,000	64	202,000	56	180,000	48	157,000	41	128,000	32
92	2800	1.34					246,000	84	229,000	74	211,000	68	190,000	58	168,000	50
99	3000	1.54					270,000	105	254,000	96	239,000	88	221,000	80	201,000	72
105	3200	1.75					294,000	135	280,000	125	265,000	115	249,000	105	231,000	94
112	3400	1.97							304,000	155	294,000	145	276,000	135	261,000	125
119	3600	2.21							328,000	185	316,000	175	303,000	165	288,000	155
125	3800	2.46							351,000	225	340,000	215	328,000	200	315,000	190
132	4000	2.73									364,000	255	353,000	245	340,000	230
138	4200	3.01									388,000	305	377,000	290	366,000	275
145	4400	3.30											401,000	340	391,000	330
151	4600	3.61											425,000	400	415,000	385
158	4800	3.93													439,000	445

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
92	2800	1.34	142,000	41												
99	3000	1.54	181,000	62	117,000	39										
105	3200	1.75	211,000	86	174,000	66										
112	3400	1.97	245,000	115	210,000	94	168,000	72								
119	3600	2.21	274,000	145	243,000	125	208,000	105	160,000	76						
125	3800	2.46	302,000	180	274,000	160	242,000	135	207,000	115	148,000	78				
132	4000	2.73	329,000	220	303,000	200	275,000	175	245,000	150	210,000	125				
138	4200	3.01	354,000	265	331,000	240	305,000	215	277,000	190	247,000	170				
145	4400	3.30	380,000	315	357,000	290	335,000	265	309,000	240	280,000	210	219,000	155		
151	4600	3.61	405,000	370	384,000	340	362,000	315	339,000	290	314,000	260	260,000	210		
158	4800	3.93	429,000	430	410,000	400	388,000	370	368,000	345	345,000	320	296,000	265	234,000	200
164	5000	4.26	454,000	500	435,000	465	415,000	435	396,000	405	374,000	380	329,000	325	277,000	260
173	5250	4.70	483,000	590	466,000	555	448,000	525	429,000	495	410,000	465	368,000	405	323,000	345
181	5500	5.16			496,000	655	479,000	620	462,000	590	445,000	560	405,000	495	363,000	430
189	5750	5.64			526,000	765	510,000	735	493,000	695	476,000	660	441,000	595	402,000	530
197	6000	6.14			555,000	890	540,000	850	525,000	815	510,000	775	477,000	705	440,000	640
206	6250	6.66					570,000	980	556,000	955	540,000	905	509,000	830	477,000	760
214	6500	7.20					600,000	1130	585,000	1080	571,000	1040	543,000	965	511,000	885
222	6750	7.76							616,000	1230	602,000	1190	574,000	1100	545,000	1030
230	7000	8.85							645,000	1400	632,000	1360	606,000	1270	578,000	1180
247	7500	9.59									692,000	1730	667,000	1630	642,000	1540
263	8000	10.91											729,000	2050	705,000	1960
280	8500	12.32											786,000	2530	766,000	2420
296	9000	13.81													826,000	2970
312	9500	15.40													884,000	3570
329	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
173	5250	4.70	263,000	270												
181	5500	5.16	318,000	370	262,000	290										
189	5750	5.64	361,000	465	315,000	395										
197	6000	6.14	401,000	570	360,000	500	230,000	305								
206	6250	6.66	441,000	685	403,000	615	315,000	455								
214	6500	7.20	479,000	815	443,000	740	366,000	590								
222	6750	7.76	514,000	955	482,000	875	410,000	720	322,000	535						
230	7000	8.85	549,000	1100	519,000	1030	453,000	865	377,000	695						
247	7500	9.59	617,000	1450	590,000	1370	532,000	1190	468,000	1020	395,000	830				
263	8000	10.91	682,000	1850	657,000	1760	606,000	1580	550,000	1390	490,000	1200	419,000	1000		
280	8500	12.32	745,000	2310	722,000	2210	675,000	2010	625,000	1820	570,000	1620	513,000	1430	446,000	1210
296	9000	13.81	805,000	2850	785,000	2730	741,000	2510	697,000	2310	650,000	2120	596,000	1900	541,000	1700
312	9500	15.40	867,000	3440	846,000	3320	807,000	3090	765,000	2860	724,000	2650	676,000	2440	625,000	2220
329	10000	17.05	925,000	4100	907,000	3980	870,000	3720	831,000	3470	790,000	3250	747,000	3030	704,000	2800

Double Inlet

Size "W" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
30	1000	0.171	63,800	2.4												
36	1200	0.246	105,000	6.1												
42	1400	0.334	139,000	11.5	86,500	6.3										
48	1600	0.436	170,000	19	130,000	13										
54	1800	0.552	200,000	29	167,000	22	126,000	16								
60	2000	0.682			200,000	33	167,000	26	128,000	19						
66	2200	0.825			232,000	48	204,000	40	170,000	32	133,000	24				
72	2400	0.981			262,000	66	236,000	56	210,000	48	180,000	40	142,000	30		
78	2600	1.15			291,000	86	269,000	76	246,000	68	219,000	58	191,000	50	156,000	39
84	2800	1.34					299,000	100	279,000	90	257,000	82	231,000	72	205,000	62
90	3000	1.54					328,000	130	310,000	120	291,000	110	269,000	98	244,000	86
96	3200	1.75					358,000	165	341,000	150	323,000	140	303,000	125	281,000	115
102	3400	1.97							370,000	190	354,000	175	336,000	160	317,000	150
107	3600	2.21							400,000	230	384,000	215	368,000	200	350,000	190
113	3800	2.46							427,000	275	414,000	260	399,000	245	384,000	230
119	4000	2.73									443,000	310	429,000	295	414,000	280
125	4200	3.01									472,000	370	459,000	355	445,000	335
131	4400	3.30											489,000	415	475,000	400
137	4600	3.61											516,000	485	505,000	470
143	4800	3.93													534,000	545

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
84	2800	1.34	173,000	50												
90	3000	1.54	220,000	76	142,000	47										
96	3200	1.75	260,000	105	212,000	82										
102	3400	1.97	299,000	140	255,000	115	201,000	86								
107	3600	2.21	333,000	175	296,000	150	253,000	125	196,000	92						
113	3800	2.46	368,000	220	333,000	195	295,000	165	252,000	135	180,000	96				
119	4000	2.73	400,000	270	369,000	240	335,000	210	298,000	185	255,000	150				
125	4200	3.01	431,000	320	403,000	290	371,000	265	338,000	235	301,000	205				
131	4400	3.30	462,000	380	435,000	350	407,000	320	376,000	290	341,000	260	266,000	190		
137	4600	3.61	494,000	450	467,000	415	440,000	350	414,000	355	382,000	320	317,000	255		
143	4800	3.93	521,000	525	499,000	490	473,000	450	448,000	420	421,000	385	360,000	320	285,000	240
149	5000	4.26	551,000	605	530,000	565	506,000	530	482,000	495	455,000	460	400,000	395	337,000	320
151	5250	4.70	587,000	720	567,000	680	545,000	640	522,000	600	500,000	565	447,000	490	393,000	420
164	5500	5.16			605,000	800	583,000	755	563,000	720	541,000	680	494,000	605	442,000	525
172	5750	5.64			640,000	935	621,000	895	600,000	845	581,000	805	536,000	725	490,000	645
179	6000	6.14			676,000	1080	657,000	1040	640,000	990	620,000	945	581,000	860	536,000	775
187	6250	6.66					694,000	1190	678,000	1160	658,000	1100	620,000	1010	580,000	925
194	6500	7.20					730,000	1370	713,000	1320	695,000	1270	662,000	1170	622,000	1080
202	6750	7.76							750,000	1500	734,000	1450	699,000	1350	664,000	1250
209	7000	8.85							786,000	1710	770,000	1650	738,000	1540	705,000	1440
224	7500	9.59									843,000	2110	812,000	1990	783,000	1880
239	8000	10.91											887,000	2500	859,000	2380
254	8500	12.32											959,000	3080	934,000	2950
269	9000	13.81													1,010,000	3620
284	9500	15.40													1,080,000	4350
299	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
151	5250	4.70	320,000	325												
164	5500	5.16	387,000	450	319,000	355										
172	5750	5.64	440,000	565	384,000	480										
179	6000	6.14	489,000	690	439,000	610	280,000	370								
187	6250	6.66	538,000	835	491,000	750	384,000	555								
194	6500	7.20	583,000	990	540,000	900	445,000	715								
202	6750	7.76	626,000	1160	587,000	1070	499,000	880	392,000	650						
209	7000	8.85	668,000	1340	632,000	1250	551,000	1060	459,000	845						
224	7500	9.59	751,000	1770	719,000	1660	648,000	1460	570,000	1240	480,000	1010				
239	8000	10.91	830,000	2250	800,000	2140	739,000	1920	670,000	1690	592,000	1460	510,000	1220		
254	8500	12.32	906,000	2810	880,000	2700	822,000	2450	760,000	2210	695,000	1980	624,000	1740	544,000	1470
269	9000	13.81	980,000	3470	955,000	3320	902,000	3060	849,000	2810	791,000	2580	727,000	2320	659,000	2060
284	9500	15.40	1,060,000	4190	1,030,000	4030	984,000	3760	932,000	3480	880,000	3230	823,000	2970	761,000	2700
299	10000	17.05	1,130,000	5000	1,100,000	4850	1,060,000	4530	1,010,000	4230	962,000	3960	910,000	3690	858,000	3410

Double Inlet

Size "X" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
27	1000	0.171	76,300	2.9												
33	1200	0.246	126,000	7.2												
38	1400	0.334	167,000	13.5	104,000	8										
44	1600	0.436	203,000	22.5	155,000	16										
49	1800	0.552	239,000	34	200,000	26	151,000	19								
55	2000	0.682			239,000	40	200,000	32	153,000	23						
60	2200	0.825			277,000	58	244,000	48	203,000	39	159,000	28				
65	2400	0.981			313,000	78	283,000	68	251,000	58	215,000	48	170,000	36		
71	2600	1.15			318,000	105	321,000	92	294,000	82	262,000	70	238,000	60	187,000	46
76	2800	1.34					358,000	120	333,000	110	307,000	98	276,000	86	245,000	74
82	3000	1.54					393,000	155	370,000	140	348,000	130	321,000	115	292,000	105
87	3200	1.75					429,000	200	408,000	180	386,000	165	363,000	150	336,000	140
93	3400	1.97							443,000	225	424,000	210	402,000	195	380,000	180
98	3600	2.21							478,000	275	460,000	255	441,000	240	419,000	225
104	3800	2.46							511,000	330	494,000	310	476,000	295	459,000	275
109	4000	2.73									530,000	375	514,000	355	496,000	335
115	4200	3.01									565,000	445	549,000	425	533,000	405
120	4400	3.30											584,000	500	569,000	475
125	4600	3.61											618,000	580	605,000	560
131	4800	3.93													639,000	650

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
76	2800	1.34	207,000	60												
82	3000	1.54	263,000	92	170,000	56										
87	3200	1.75	311,000	125	253,000	98										
93	3400	1.97	357,000	165	305,000	135	244,000	105								
98	3600	2.21	398,000	210	353,000	180	302,000	150	234,000	110						
104	3800	2.46	440,000	260	398,000	230	352,000	200	301,000	165	215,000	115				
109	4000	2.73	478,000	320	411,000	285	400,000	255	356,000	220	305,000	180				
115	4200	3.01	516,000	385	481,000	350	444,000	315	404,000	280	360,000	245				
120	4400	3.30	553,000	455	520,000	420	487,000	385	450,000	345	407,000	310	318,000	225		
125	4600	3.61	590,000	540	559,000	500	527,000	460	495,000	425	457,000	380	379,000	305		
131	4800	3.93	624,000	625	596,000	585	565,000	540	536,000	505	503,000	460	431,000	385	341,000	290
136	5000	4.26	661,000	725	634,000	680	605,000	635	576,000	590	544,000	550	478,000	475	403,000	380
143	5250	4.70	703,000	860	679,000	810	653,000	765	624,000	715	598,000	675	535,000	585	470,000	500
150	5500	5.16			723,000	960	697,000	905	674,000	860	647,000	810	590,000	725	529,000	630
157	5750	5.64			765,000	1120	743,000	1070	718,000	1010	695,000	960	641,000	865	586,000	770
164	6000	6.14			808,000	1300	787,000	1240	764,000	1180	741,000	1130	695,000	1030	641,000	930
171	6250	6.66					820,000	1430	810,000	1390	786,000	1310	741,000	1210	695,000	1100
177	6500	7.20					874,000	1640	853,000	1570	831,000	1520	791,000	1400	744,000	1290
184	6750	7.76							896,000	1800	877,000	1740	835,000	1610	794,000	1500
191	7000	8.85							940,000	2040	920,000	1980	881,000	1840	843,000	1720
205	7500	9.59									1,010,000	2520	972,000	2370	835,000	2240
218	8000	10.91											1,060,000	2980	1,030,000	2840
232	8500	12.32											1,150,000	3680	1,120,000	3520
246	9000	13.81													1,200,000	4320
259	9500	15.40													1,290,000	5200
273	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
143	5250	4.70	383,000	390												
150	5500	5.16	463,000	535	381,000	420										
157	5750	5.64	525,000	675	459,000	570										
164	6000	6.14	584,000	830	525,000	730	334,000	445								
171	6250	6.66	643,000	1000	587,000	895	459,000	665								
177	6500	7.20	697,000	1180	645,000	1080	532,000	855								
184	6750	7.76	749,000	1390	702,000	1280	596,000	1050	469,000	780						
191	7000	8.85	790,000	1600	755,000	1490	660,000	1260	549,000	1010						
205	7500	9.59	898,000	2110	860,000	1990	774,000	1740	681,000	1190	575,000	1210				
218	8000	10.91	992,000	2690	956,000	2530	884,000	2300	801,000	2030	711,000	1740	610,000	1460		
232	8500	12.32	1,080,000	3360	1,050,000	3220	983,000	2930	909,000	2650	831,000	2360	746,000	2080	650,000	1760
246	9000	13.81	1,170,000	4140	1,140,000	3970	1,080,000	3650	1,020,000	3360	946,000	3080	869,000	2770	788,000	2470
259	9500	15.40	1,260,000	5010	1,230,000	4820	1,180,000	4500	1,110,000	4150	1,050,000	3860	985,000	3550	910,000	3230
273	10000	17.05	1,350,000	5980	1,320,000	5790	1,270,000	5410	1,210,000	5050	1,150,000	4740	1,090,000	4410	103,000	4080

Double Inlet **Single Width**

Size "Y" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
25	1000	0.171	89,900	3.4												
30	1200	0.246	148,000	8.5												
35	1400	0.334	196,000	16	122,000	9										
40	1600	0.436	240,000	26	183,000	19										
45	1800	0.552	282,000	40	235,000	31	178,000	22								
50	2000	0.682			282,000	47	235,000	37	180,000	27						
55	2200	0.825			326,000	58	287,000	56	240,000	45	188,000	34				
60	2400	0.981			368,000	92	333,000	80	296,000	68	253,000	56	200,000	42		
65	2600	1.15			409,000	125	378,000	110	346,000	96	308,000	82	269,000	70	220,000	54
70	2800	1.34					421,000	145	393,000	130	362,000	115	325,000	100	289,000	86
75	3000	1.54					463,000	180	436,000	165	409,000	150	378,000	135	341,000	120
80	3200	1.75					505,000	235	480,000	210	455,000	195	427,000	180	396,000	165
85	3400	1.97							521,000	265	499,000	245	474,000	225	447,000	210
90	3600	2.21							563,000	320	541,000	300	519,000	285	494,000	265
95	3800	2.46							602,000	385	582,000	365	561,000	345	540,000	325
101	4000	2.73									624,000	440	605,000	420	584,000	395
106	4200	3.01									665,000	520	646,000	500	627,000	475
111	4400	3.30											688,000	585	670,000	560
116	4600	3.61											728,000	685	711,000	660
121	4800	3.93													752,000	765

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
70	2800	1.34	244,000	72												
75	3000	1.54	309,000	105	200,000	66										
80	3200	1.75	366,000	150	298,000	115										
85	3400	1.97	420,000	195	360,000	160	237,000	120								
90	3600	2.21	469,000	245	416,000	215	356,000	175	275,000	130						
95	3800	2.46	517,000	305	469,000	270	415,000	235	355,000	195	253,000	135				
101	4000	2.73	564,000	375	520,000	340	471,000	300	420,000	260	360,000	215				
106	4200	3.01	608,000	455	567,000	410	524,000	370	476,000	330	424,000	290				
111	4400	3.30	651,000	540	612,000	495	574,000	450	530,000	410	479,000	365	375,000	265		
116	4600	3.61	695,000	635	659,000	585	621,000	540	583,000	500	538,000	450	446,000	360		
121	4800	3.93	735,000	740	703,000	690	666,000	635	631,000	595	592,000	545	507,000	455	402,000	340
126	5000	4.26	778,000	855	746,000	800	712,000	745	680,000	700	642,000	650	561,000	555	475,000	450
132	5250	4.70	829,000	1010	800,000	955	769,000	810	736,000	845	705,000	795	630,000	690	554,000	590
138	5500	5.16			851,000	1120	821,000	1070	794,000	1010	762,000	955	695,000	850	623,000	740
145	5750	5.64			901,000	1320	875,000	1260	845,000	1190	818,000	1130	755,000	1020	690,000	910
151	6000	6.14			951,000	1530	926,000	1460	901,000	1390	873,000	1330	818,000	1210	756,000	1100
157	6250	6.66					976,000	1680	955,000	1640	926,000	1550	873,000	1420	818,000	1300
163	6500	7.20					1,030,000	1940	1,010,000	1860	979,000	1790	931,000	1650	876,000	1520
170	6750	7.76							1,060,000	2120	1,030,000	2040	985,000	1900	935,000	1760
176	7000	8.85							1,110,000	2400	1,090,000	2330	1,040,000	2170	994,000	2030
188	7500	9.59									1,190,000	2970	1,140,000	2800	1,100,000	2640
201	8000	10.91											1,250,000	3520	1,210,000	3350
211	8500	12.32											1,350,000	4340	1,310,000	4150
226	9000	13.81													1,420,000	5090
239	9500	15.40													1,520,000	6150
251	10000	17.05														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
132	5250	4.70	451,000	460												
138	5500	5.16	545,000	630	450,000	495										
145	5750	5.64	620,000	795	541,000	675										
151	6000	6.14	688,000	975	619,000	880	394,000	525								
157	6250	6.66	757,000	1180	692,000	1050	541,000	780								
163	6500	7.20	821,000	1400	760,000	1270	627,000	1010								
170	6750	7.76	882,000	1640	827,000	1500	703,000	1240	553,000	920						
176	7000	8.85	941,000	1890	890,000	1760	777,000	1490	647,000	1190						
188	7500	9.59	1,060,000	2490	1,010,000	2340	912,000	2050	802,000	1750	676,000	1420				
201	8000	10.91	1,170,000	3170	1,130,000	3020	1,040,000	2710	944,000	2390	835,000	2050	719,000	1720		
211	8500	12.32	1,280,000	3980	1,240,000	3800	1,160,000	3450	1,070,000	3120	979,000	2790	879,000	2450	766,000	2070
226	9000	13.81	1,380,000	4880	1,350,000	4670	1,270,000	4310	1,200,000	3960	1,110,000	3630	1,030,000	3260	920,000	2910
239	9500	15.40	1,490,000	5900	1,450,000	5680	1,390,000	5300	1,310,000	4900	1,240,000	4550	1,160,000	4190	1,070,000	3810
251	10000	17.05	1,590,000	7050	1,560,000	6830	1,490,000	6380	1,430,000	5950	1,360,000	5580	1,280,000	5200	1,210,000	4810

Double Inlet **Double Width**

Size "A" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
296	1010	0.176	946	0.032												
352	1200	0.249	1,814	0.09												
411	1400	0.338	2,310	0.16												
469	1600	0.411	2,760	0.26	2,260	0.195										
528	1800	0.559	3,220	0.38	2,860	0.32	2,020	0.22								
586	2000	0.690	3,600	0.52	3,300	0.48	2,900	0.39								
645	2200	0.835	4,010	0.71	3,820	0.67	3,500	0.59	2,940	0.47						
701	2400	0.994			4,260	0.89	4,000	0.82	3,640	0.72	2,940	0.57				
763	2600	1.17			4,720	1.15	4,480	1.10	4,200	0.99	3,800	0.87	3,160	0.72		
821	2800	1.35			5,080	1.45	4,880	1.40	4,680	1.30	4,400	1.20	4,000	1.05	3,360	0.89
880	3000	1.55			5,500	1.8	5,340	1.75	5,160	1.65	4,920	1.55	4,640	1.45	4,240	1.3
939	3200	1.77			5,880	2.2	5,760	2.1	5,600	2.1	5,400	2.0	5,180	1.85	4,880	1.7
998	3400	2.00					6,160	2.6	6,020	2.5	5,860	2.4	5,660	2.3	5,460	2.2
1058	3600	2.24					6,580	3.1	6,410	3.0	6,300	2.9	6,140	2.9	5,960	2.7
1114	3800	2.49					6,960	3.6	6,860	3.6	6,720	3.5	6,580	3.1	6,420	3.3
1173	4000	2.76							7,260	4.2	7,140	4.1	7,020	4.1	6,840	4.0
1231	4200	3.04							7,680	4.9	7,580	4.8	7,460	4.8	7,340	4.7
1290	4400	3.34							8,080	5.7	7,980	5.6	7,880	5.5	7,760	5.4
1350	4600	3.65									8,380	6.4	8,300	6.3	8,180	6.3
1409	4800	3.98									8,780	7.3	8,700	7.2	8,620	7.2
1469	5000	4.31									9,180	8.3	9,120	8.3	9,020	8.2
1540	5250	4.76											9,600	9.6	9,520	9.6
1614	5500	5.22											10,100	11	10,000	11.0
1689	5750	5.71													10,500	12.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
880	3000	1.55	3,640	1.10												
939	3200	1.77	4,520	1.55	3,040	1.05										
998	3400	2.00	5,160	2.1	4,300	1.65										
1058	3600	2.24	5,740	2.6	5,100	2.2	4,040	1.75								
1114	3800	2.49	6,240	3.2	5,760	2.9	5,060	2.4	3,720	1.8						
1173	4000	2.76	6,720	3.8	6,340	3.5	5,840	3.1	4,960	2.7						
1231	4200	3.04	7,180	4.5	6,860	4.3	6,480	3.9	5,820	3.4	2,900	2.9				
1290	4400	3.34	7,660	5.3	7,360	5.1	7,000	4.7	6,520	4.3	5,880	3.8				
1350	4600	3.65	8,100	6.2	7,820	5.9	7,520	5.6	7,160	5.2	6,640	4.7	4,900	3.5		
1409	4800	3.98	8,520	7.1	8,260	6.8	7,980	6.5	7,680	6.2	7,280	5.7	6,020	4.6		
1469	5000	4.31	8,940	8.1	8,720	7.9	8,480	7.6	8,200	7.2	7,860	6.8	6,900	5.8	5,080	4.3
1540	5250	4.76	9,440	9.4	9,260	9.4	9,040	8.9	8,820	8.6	8,520	8.3	7,780	7.3	6,560	6.1
1614	5500	5.22	9,960	11.0	9,780	11.0	9,600	11	9,380	10.0	9,140	9.8	8,480	8.9	7,640	7.7
1689	5750	5.71	10,500	12.5	10,300	12.5	10,200	12	9,940	12.0	9,720	11.5	9,220	10.5	8,500	9.5
1761	6000	6.21	11,000	14	10,800	14	10,700	14	10,500	14.0	10,300	13.5	9,840	12.5	9,280	11.5
1834	6250	6.71	11,500	16	11,300	16	11,100	16	11,100	15.5	10,900	15	10,500	14.5	9,960	13.5
1908	6500	7.29			11,900	18	11,700	18	11,600	18	11,400	17	11,000	16.5	10,600	16
1980	6750	7.86			12,300	20	12,200	20	12,100	20	11,900	20	11,600	19	11,200	18
2055	7000	8.45			12,800	23	12,700	23	12,600	22	12,480	22	12,200	21	11,800	21
2200	7500	9.71					13,700	28	13,600	28	13,500	27	13,300	27	13,000	26
2345	8000	11.01							14,600	34	14,500	34	14,300	33	14,100	33
2495	8500	12.48							15,600	41	15,500	41	15,300	40	15,100	40
2640	9000	14.00									16,520	48	16,400	48	16,180	47
2788	9500	15.58											17,400	56	17,200	56
2940	10000	17.27											18,400	66	18,200	66

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1614	5500	5.22	6,180	6.3												
1689	5750	5.71	7,480	8.3	5,720	6.4										
1761	6000	6.21	8,460	10.0	7,280	8.8										
1834	6250	6.74	9,320	12.5	8,420	11										
1908	6500	7.29	10,100	15.0	9,360	13	6,880	9.8								
1980	6750	7.86	10,800	17.0	10,200	16	8,320	13.0								
2055	7000	8.45	11,100	19.5	10,900	18	9,460	15.5	6,560	11.0						
2200	7500	9.71	12,600	25	12,200	21	11,200	22	9,620	17.5						
2345	8000	11.04	13,800	32	13,400	31	12,700	28	11,600	25	9,920	21				
2495	8500	12.48	14,900	39	14,000	38	13,900	36	13,100	33	12,000	29	10,400	25		
2640	9000	14.00	15,900	47	15,700	46	15,200	44	14,500	41	13,700	38	12,500	34	10,900	30
2788	9500	15.58	17,000	56	16,800	54	16,300	54	15,700	50	15,100	47	14,200	44	13,100	40
2940	10000	17.27	18,000	66	17,900	64	17,400	64	16,900	60	16,400	58	15,700	54	14,900	50

Double Inlet

Size "B" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
241	1010	0.176	1,436	0.050												
287	1200	0.249	2,760	0.135												
335	1400	0.338	3,510	0.25												
382	1600	0.441	4,180	0.39	3,420	0.29										
430	1800	0.559	4,880	0.57	4,340	0.49	3,060	0.33								
477	2000	0.690	5,460	0.79	5,100	0.72	4,380	0.59								
525	2200	0.835	6,140	1.1	5,780	1.00	5,300	0.89	4,460	0.71						
573	2400	0.994			6,460	1.35	6,060	1.25	5,520	1.1	4,460	0.86				
621	2600	1.17			7,140	1.7	6,780	1.65	6,360	1.5	5,760	1.3	4,780	1.1		
668	2800	1.35			7,700	2.2	7,380	2.1	7,100	2.0	6,680	1.8	6,080	1.6	5,100	1.35
717	3000	1.55			8,320	2.7	8,080	2.6	7,800	2.5	7,400	2.4	7,020	2.2	6,420	1.95
764	3200	1.77			8,920	3.3	8,720	3.2	8,480	3.1	8,200	3.0	7,840	2.8	7,400	2.6
811	3400	2.00					9,340	3.9	9,140	3.8	8,900	3.7	8,580	3.5	8,260	3.4
860	3600	2.24					9,980	4.7	9,760	4.6	9,560	4.5	9,300	4.3	9,020	4.1
909	3800	2.49					10,600	5.5	10,400	5.4	10,200	5.4	9,980	5.2	9,720	5.0
955	4000	2.76							11,000	6.4	10,800	6.3	10,600	6.2	10,400	6.0
1002	4200	3.01							11,600	7.4	11,500	7.3	11,300	7.2	11,100	7.0
1051	4400	3.34							12,200	8.6	12,100	8.5	11,900	8.4	11,800	8.2
1099	4600	3.65									12,700	9.8	12,600	9.6	12,400	9.5
1148	4800	3.98									13,300	11.0	13,200	11.0	13,000	11.0
1195	5000	4.31									13,900	12.5	13,800	12.5	13,700	12.5
1254	5250	4.76											14,600	14.5	14,400	14.5
1313	5500	5.22											15,300	17	15,200	16.5
1374	5750	5.71													16,000	19

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
717	3000	1.55	5,520	1.65												
764	3200	1.77	6,840	2.3	4,620	1.6										
811	3400	2.00	7,820	3.1	6,520	2.5										
860	3600	2.24	8,700	3.9	7,740	3.4	6,120	2.7								
909	3800	2.49	9,460	4.8	8,740	4.3	7,660	3.7	5,640	2.8						
955	4000	2.76	10,200	5.8	9,600	5.3	8,860	4.8	7,520	4.0						
1002	4200	3.01	10,900	6.9	10,400	6.4	9,820	5.9	8,820	5.2	7,440	4.4				
1051	4400	3.34	11,600	8.1	11,100	7.7	10,600	7.1	9,880	6.5	8,920	5.8				
1099	4600	3.65	12,300	9.4	11,800	9.0	11,400	8.6	10,800	7.9	10,080	7.2	7,420	5.3		
1148	4800	3.98	12,900	11.0	12,500	10.5	12,100	10.0	11,700	9.4	11,000	8.7	9,140	7.0		
1195	5000	4.31	13,500	12.5	13,200	12	12,800	11.5	12,400	11.0	11,900	10.5	10,500	8.7	7,700	6.5
1254	5250	4.76	14,300	14.5	14,000	14	13,700	13.5	13,400	13.0	12,900	12.5	11,800	11.0	9,960	9.2
1313	5500	5.22	15,100	16.5	14,800	16	14,600	16.0	14,200	15.5	13,900	15.0	12,900	13.5	11,600	12.0
1374	5750	5.71	15,800	19	15,600	19	15,400	18.5	15,100	18	14,800	17.5	14,000	16	12,900	14.5
1432	6000	6.21	16,600	22	16,400	21	16,200	21	15,900	21	15,600	20	14,900	19	14,100	17.5
1492	6250	6.74	17,600	25	17,200	24	17,000	24	16,700	24	16,500	23	15,900	22	15,100	21
1552	6500	7.29			17,900	28	17,800	27	17,500	27	17,300	26	16,700	25	16,100	24
1610	6750	7.86			18,700	31	18,500	31	18,300	30	18,100	30	17,600	29	17,000	28
1671	7000	8.45			19,400	34	19,300	34	19,100	34	18,900	34	18,100	33	17,900	31
1791	7500	9.71					20,800	42	20,600	42	20,600	42	20,200	41	19,600	40
1910	8000	11.04							22,200	52	22,000	52	21,800	50	21,400	49
2030	8500	12.48							23,800	62	23,600	62	23,200	62	23,000	60
2150	9000	14.00									25,000	74	24,800	74	24,600	72
2270	9500	15.58											26,400	86	26,000	86
2390	10000	17.27											27,800	100	27,600	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1313	5500	5.22	9,380	9.5												
1374	5750	5.71	11,300	12.5	8,680	9.7										
1432	6000	6.21	12,800	15.5	11,000	13.5										
1492	6250	6.74	14,100	19	12,800	16.5										
1552	6500	7.29	15,300	22	14,200	20	10,400	15.0								
1610	6750	7.86	16,300	26	15,400	24	12,600	19.5								
1671	7000	8.45	17,300	30	16,600	28	14,300	23	9,960	16.5						
1791	7500	9.71	19,100	38	18,600	37	17,000	33	14,600	27						
1910	8000	11.04	20,800	48	20,400	46	19,200	43	17,600	38	15,100	32				
2030	8500	12.48	22,600	58	22,200	58	21,200	54	19,900	50	18,200	44	15,700	38		
2150	9000	14.00	24,200	70	23,800	70	23,000	66	22,000	62	20,800	58	19,000	52	16,600	45
2270	9500	15.58	25,800	84	25,400	84	24,800	80	23,800	76	23,000	72	21,600	66	19,900	60
2390	10000	17.27	27,400	100	27,200	98	26,400	96	25,800	92	24,800	88	23,800	82	22,600	76

Double Inlet **Double Width**

Size "C" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
203	1010	0.176	2,020	0.17												
241	1200	0.249	3,880	0.19												
281	1400	0.338	5,000	0.35												
322	1600	0.441	5,900	0.55	4,820	0.41										
362	1800	0.559	6,880	0.81	6,140	0.69	4,320	0.47								
402	2000	0.690	7,720	1.1	7,200	1.0	6,200	0.83								
442	2200	0.835	8,660	1.5	8,160	1.4	7,480	1.25	6,300	1.00						
482	2400	0.994			9,100	1.9	8,540	1.75	7,780	1.55	6,300	1.20				
522	2600	1.17			10,100	2.4	9,560	2.3	8,980	2.1	8,140	1.85	6,760	1.55		
563	2800	1.35			10,900	3.1	10,420	2.9	10,000	2.8	9,420	2.6	8,580	2.3	7,200	1.9
604	3000	1.55			11,800	3.8	11,400	3.7	11,000	3.6	10,500	3.3	9,900	3.1	9,060	2.7
644	3200	1.77			12,600	4.6	12,300	4.6	12,000	4.4	11,600	4.2	11,100	4.0	10,400	3.7
684	3400	2.00					13,100	5.5	12,900	5.4	12,500	5.2	12,100	5.0	11,700	4.7
724	3600	2.21					14,100	6.6	13,800	6.5	13,500	6.3	13,100	6.1	12,700	5.8
764	3800	2.49					14,900	7.8	14,700	7.7	14,400	7.6	14,100	7.3	13,700	7.1
804	4000	2.76							15,500	9.1	15,300	8.9	15,100	8.7	14,700	8.5
845	4200	3.01							16,400	10.5	16,200	10.5	16,000	10.0	15,700	10.0
885	4400	3.34							17,300	12	17,100	12	16,900	12.0	16,600	11.5
925	4600	3.65									17,900	14	17,700	13.5	17,500	13.5
965	4800	3.98									18,800	16	18,600	15.5	18,400	15.5
1005	5000	4.31									19,600	18	19,500	17.5	19,300	17.5
1055	5250	4.76											20,600	21	20,400	20
1106	5500	5.22											21,600	24	21,400	23
1155	5750	5.71													22,600	27

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs. per sq. inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
604	3000	1.55	7,780	2.3												
644	3200	1.77	9,660	3.3	6,520	2.3										
684	3400	2.00	11,100	4.4	9,220	3.6										
724	3600	2.24	12,300	5.5	10,900	4.7	8,640	3.8								
764	3800	2.49	13,400	6.8	12,300	6.1	10,800	5.2	7,940	3.9						
804	4000	2.76	14,400	8.2	13,600	7.5	12,500	6.7	10,600	5.7						
845	4200	3.01	15,400	9.7	14,700	9.1	13,900	8.4	12,400	7.3	10,500	6.2				
885	4400	3.34	16,400	11.0	15,700	11	15,000	10	13,900	9.2	12,600	8.1				
925	4600	3.65	17,300	13.0	16,700	13	16,100	12	15,300	11	14,200	10.0	10,500	7.5		
965	4800	3.98	18,300	15.0	17,700	15	17,100	14	16,400	13	15,600	12.0	12,900	9.9		
1005	5000	4.31	19,100	17.5	18,700	17	18,100	16	17,500	15	16,800	14.5	14,700	12.5	10,900	9.2
1055	5250	4.76	20,200	20	19,800	20	19,300	19	18,800	18	18,200	17.5	16,600	15.6	14,000	13.0
1106	5500	5.22	21,200	23	21,000	23	20,600	23	20,000	22	19,500	21	18,100	19	16,300	16.5
1155	5750	5.71	22,400	27	22,000	26	21,800	26	21,200	25	20,800	25	19,700	23	18,200	20
1205	6000	6.21	23,400	31	23,200	30	22,800	30	22,000	29	22,000	29	21,000	27	19,800	25
1258	6250	6.71	24,600	35	24,200	34	24,000	34	23,600	33	23,200	33	22,400	31	21,400	29
1307	6500	7.29			25,400	39	25,000	38	24,800	38	24,400	37	23,600	36	22,600	34
1358	6750	7.86			26,400	44	26,200	43	25,800	43	25,600	42	24,800	41	24,000	39
1408	7000	8.45			27,400	49	27,200	48	27,000	48	26,800	47	26,000	46	25,200	44
1509	7500	9.71					29,400	60	29,200	60	29,000	58	28,400	58	27,800	56
1609	8000	11.04							31,400	72	31,000	72	30,600	72	30,000	70
1710	8500	12.48							33,400	88	33,200	86	32,800	86	32,400	84
1810	9000	14.00									35,200	105	35,000	105	34,600	100
1910	9500	15.58											37,200	120	36,800	120
2010	10000	17.27											39,100	145	39,000	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1106	5500	5.22	13,200	13.0												
1155	5750	5.71	16,000	17.5	12,200	14										
1205	6000	6.21	18,100	22	15,600	19										
1258	6250	6.74	20,000	26	18,000	24										
1307	6500	7.29	21,600	31	20,000	28	14,700	21								
1358	6750	7.86	23,000	37	21,800	34	17,800	27								
1408	7000	8.45	21,400	42	23,400	40	20,200	33	14,000	23						
1509	7500	9.71	27,000	54	26,200	52	21,000	46	20,600	38						
1609	8000	11.04	29,400	68	28,800	66	27,000	60	24,800	51	21,200	46				
1710	8500	12.48	31,800	82	31,200	82	29,800	76	28,000	70	25,600	62	22,200	54		
1810	9000	14.00	34,000	100	33,600	98	32,400	94	31,000	88	29,200	82	26,800	72	23,400	64
1910	9500	15.58	36,400	120	36,000	115	35,000	110	33,600	110	32,400	100	30,400	94	28,200	84
2010	10000	17.27	38,600	140	38,000	140	37,400	135	36,200	130	35,000	125	33,600	115	31,800	110

Double Inlet

Size "D" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
175	1010	0.176	2,720	0.094												
208	1200	0.249	5,200	0.26												
242	1400	0.338	6,700	0.46												
278	1600	0.441	7,900	0.73	6,440	0.56										
312	1800	0.559	9,220	1.1	8,200	0.93	5,780	0.63								
347	2000	0.690	10,300	1.5	9,620	1.35	8,280	1.1								
382	2200	0.835	11,600	2	10,900	1.9	10,000	1.7	8,400	1.35						
417	2400	0.994			12,200	2.5	11,400	2.3	10,400	2.1	8,400	1.6				
451	2600	1.17			13,500	3.3	12,800	3.1	12,000	2.8	10,900	2.5	9,040	2.1		
486	2800	1.35			14,500	4.1	13,900	3.9	13,400	3.7	12,600	3.4	11,150	3.0	9,620	2.5
520	3000	1.55			15,700	5.2	15,200	5.0	14,700	4.8	14,100	4.5	13,200	4.1	12,100	3.7
555	3200	1.77			16,800	6.2	16,500	6.1	16,000	5.9	15,500	5.7	14,800	5.3	14,000	4.9
590	3400	2.00					17,600	7.4	17,200	7.2	16,800	7.0	16,200	6.7	15,600	6.3
625	3600	2.21					18,800	8.8	18,400	8.7	18,000	8.4	17,600	8.2	17,000	7.8
659	3800	2.49					20,000	10.5	19,600	10	19,200	10.0	18,800	9.8	18,400	9.5
695	4000	2.76							20,800	12	20,400	12.0	20,000	11.5	19,700	11.5
730	4200	3.04							22,000	14	21,600	14.0	21,400	14	21,000	13.5
764	4400	3.34							23,200	16	22,800	16.0	22,600	16	22,200	15.5
799	4600	3.65									24,000	18.5	23,800	18	23,400	18
833	4800	3.98									25,200	21	24,800	21	24,600	21
868	5000	4.31									26,200	24	26,000	24	25,800	23
911	5250	4.76											27,400	28	27,200	27
955	5500	5.22											29,000	32	28,600	31
998	5750	5.71													30,200	36

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
520	3000	1.55	10,100	3.1												
555	3200	1.77	12,900	4.1	8,700	3.0										
590	3400	2.00	14,800	5.9	12,300	4.8										
625	3600	2.24	16,400	7.1	14,600	6.3	11,160	5.0								
659	3800	2.49	17,900	9.1	16,500	8.2	14,500	7.0	10,600	5.2						
695	4000	2.76	19,200	11	18,100	10.0	16,700	9.0	14,200	7.6						
730	4200	3.04	20,600	13	19,600	12.0	18,600	11.0	16,700	9.8	14,000	8.3				
764	4400	3.34	22,000	15	21,000	14.5	20,000	13.5	18,700	12.0	16,800	11.0				
799	4600	3.65	23,200	18	22,400	17.0	21,400	16.0	20,400	15.0	19,000	13.5	14,000	10.0		
833	4800	3.98	24,400	20	23,600	19.5	22,800	18.5	22,000	17.5	20,800	16.5	17,300	13.5		
868	5000	4.31	25,600	23	25,000	23	24,200	22	23,400	21	22,600	19.5	19,700	16.5	14,500	12.0
911	5250	4.76	27,000	27	26,600	27	25,800	26	25,200	25	24,400	24	22,000	21	18,800	17.5
955	5500	5.22	28,400	31	28,000	31	27,400	30	26,800	29	26,200	28	24,400	25	21,800	22
998	5750	5.71	30,000	36	29,600	35	29,000	35	28,400	34	27,800	33	26,400	31	24,400	27
1041	6000	6.21	31,400	41	31,000	40	30,600	40	30,200	39	29,600	38	28,200	36	26,600	33
1086	6250	6.71	32,800	46	32,400	46	32,000	45	31,600	45	31,200	44	30,000	42	28,600	39
1129	6500	7.29			33,800	52	33,600	52	33,200	50	32,800	50	31,600	48	30,400	45
1171	6750	7.86			35,400	58	35,000	58	34,600	58	34,200	56	33,200	54	32,200	52
1215	7000	8.45			36,800	66	36,400	64	36,200	64	35,800	64	34,800	62	33,800	60
1302	7500	9.71					39,200	80	39,000	80	38,800	78	38,000	78	37,200	68
1390	8000	11.01							42,000	98	41,600	96	41,000	96	40,400	94
1475	8500	12.48							44,800	115	44,600	115	44,000	115	43,200	110
1561	9000	14.00									47,200	140	46,800	135	46,400	135
1650	9500	15.58											49,800	165	49,200	160
1735	10000	17.27											52,600	190	52,200	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
955	5500	5.22	17,700	18												
998	5750	5.71	21,400	24	16,400	18.5										
1041	6000	6.21	24,200	29	20,800	25										
1086	6250	6.74	26,800	36	24,200	31										
1129	6500	7.29	28,800	42	26,800	38	19,700	28								
1171	6750	7.86	30,800	49	29,200	45	23,800	36								
1251	7000	8.45	32,600	56	31,200	52	27,200	44	18,800	31						
1302	7500	9.71	36,200	72	35,000	70	32,200	62	27,600	50						
1390	8000	11.01	39,400	90	38,600	88	36,200	80	33,200	60	28,400	62				
1475	8500	12.48	42,600	110	42,000	110	40,000	100	37,600	94	34,400	84	29,600	72		
1561	9000	14.00	45,600	135	45,000	130	43,400	125	41,400	115	39,200	110	35,800	96	31,400	86
1650	9500	15.58	48,600	160	48,200	155	46,800	150	45,000	145	43,200	135	40,800	125	37,600	110
1735	10000	17.27	51,600	190	51,200	185	50,000	180	48,400	170	47,000	165	45,000	155	42,600	145

Double Inlet

Size "E" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
155	1010	0.176	3,500	0.12												
184	1200	0.249	6,720	0.33												
214	1400	0.338	8,680	0.60												
245	1600	0.441	10,200	0.95	8,340	0.72										
276	1800	0.559	11,900	1.40	10,600	1.2	7,480	0.81								
306	2000	0.690	13,400	1.95	12,500	1.8	10,700	1.45								
337	2200	0.835	15,000	2.6	14,100	2.5	13,000	2.2	10,900	1.75						
367	2400	0.994			15,800	3.3	14,800	3.0	13,500	2.7	10,900	2.1				
398	2600	1.17			17,500	4.2	16,600	4.0	15,500	3.7	14,100	3.2	11,700	2.7		
428	2800	1.35			18,800	5.3	18,100	5.1	17,400	4.8	16,300	4.4	14,800	3.9	12,500	3.3
459	3000	1.55			20,400	6.6	19,700	6.4	19,800	6.2	18,200	5.8	17,100	5.3	15,700	5.7
490	3200	1.77			21,800	8	21,400	7.9	20,800	7.6	20,000	7.3	19,200	6.9	18,100	6.4
520	3400	2.00					22,800	9.6	22,400	9.3	21,800	9.0	21,500	8.6	20,200	8.2
551	3600	2.24					24,400	11.5	23,800	11	23,400	11.0	22,800	10.5	22,000	10.0
581	3800	2.49					25,800	13.5	25,400	13	25,000	13.0	24,400	12.5	23,800	12.0
612	4000	2.76							27,000	16	26,600	15.5	26,000	15.0	25,600	14.5
643	4200	3.04							28,400	18	28,000	18	27,600	17.5	27,200	17.5
673	4400	3.34							30,000	21	29,600	21	29,200	20	28,800	20
704	4600	3.65									31,000	24	30,800	23	30,400	23
735	4800	3.98									32,600	27	32,200	27	32,000	27
765	5000	4.31									34,000	31	33,800	31	33,400	30
804	5250	4.76											35,600	36	35,200	35
842	5500	5.22											37,400	41	37,200	41
880	5750	5.71													39,000	47

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
459	3000	1.55	13,500	4.1												
490	3200	1.77	16,700	5.7	11,300	3.9										
520	3400	2.00	19,100	7.6	16,000	6.2										
551	3600	2.24	21,200	9.6	18,900	8.2	15,000	6.5								
581	3800	2.49	23,200	12	21,400	10.5	18,700	9.0	13,760	6.7						
612	4000	2.76	25,000	14	23,400	13	21,600	11.5	18,380	9.8						
643	4200	3.04	26,600	17	25,400	16	24,000	14.5	21,600	12.5	18,180	11.0				
673	4400	3.34	28,400	20	27,200	19	26,000	17.5	24,200	15.0	21,800	14.0				
704	4600	3.65	30,000	23	29,000	22	27,800	21	26,400	19.5	24,600	17.5	18,100	13		
735	4800	3.98	31,600	26	30,600	25	29,600	24	28,400	23	27,000	21	22,400	17		
765	5000	4.31	33,200	30	32,400	29	31,400	28	30,400	27	29,200	25	25,600	21	18,800	16
804	5250	4.76	35,000	35	34,400	35	33,600	33	32,600	32	31,600	31	28,800	27	24,200	22
842	5500	5.22	36,800	40	36,200	40	35,600	39	34,800	38	33,800	36	31,400	33	28,200	29
880	5750	5.71	38,800	46	38,200	46	37,600	45	36,800	41	36,000	43	34,200	40	31,600	35
919	6000	6.21	40,600	52	40,200	52	39,600	52	39,000	50	38,200	49	36,400	46	34,400	43
956	6250	6.74	42,600	60	42,000	60	41,400	58	41,000	58	40,200	56	38,800	54	36,800	50
995	6500	7.29			44,000	68	43,400	66	42,800	66	42,400	64	40,800	62	38,200	58
1033	6750	7.86			45,800	76	45,200	74	44,800	74	44,200	74	43,000	70	41,600	68
1071	7000	8.45			47,600	84	47,200	84	46,800	82	46,400	82	45,000	80	43,600	76
1149	7500	9.71					50,800	105	50,400	105	50,000	100	49,200	100	48,000	98
1223	8000	11.04							54,200	125	53,800	125	53,200	125	52,200	120
1300	8500	12.48							58,000	150	57,600	150	56,800	150	56,000	150
1378	9000	14.00									61,200	180	60,600	180	60,000	175
1454	9500	15.58											64,400	210	63,600	210
1531	10000	17.27											68,000	250	67,600	240

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
842	5500	5.22	22,800	23												
880	5750	5.71	27,800	31	21,200	24										
919	6000	6.21	30,200	38	27,000	23										
956	6250	6.74	34,600	46	31,200	41										
995	6500	7.29	37,400	54	34,800	49	25,400	36								
1033	6750	7.86	39,800	64	37,600	58	30,800	47								
1071	7000	8.45	42,400	72	40,400	68	35,000	58	24,400	40						
1149	7500	9.71	46,800	91	45,400	90	41,600	80	35,800	66						
1223	8000	11.04	51,000	115	49,800	110	46,800	105	42,800	92	36,800	78				
1300	8500	12.48	55,200	145	54,200	140	51,600	130	48,600	120	44,400	110	38,400	94		
1378	9000	14.00	59,000	170	58,400	170	56,000	165	53,600	150	50,800	140	46,400	125	40,600	110
1454	9500	15.58	63,000	210	62,400	200	60,400	195	58,200	190	56,000	175	52,800	160	48,600	150
1531	10000	17.27	66,800	240	66,460	240	64,800	230	62,800	220	60,800	210	58,400	200	55,000	190

Double Inlet

Size "F" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .438 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
138	1010	0.176	4,400	0.15												
164	1200	0.249	8,420	0.42												
191	1400	0.338	10,900	0.75												
218	1600	0.441	12,800	1.20	10,500	0.9										
246	1800	0.559	14,900	1.75	13,300	1.5	9,380	1.0								
273	2000	0.690	16,700	2.4	15,600	2.2	13,400	1.8								
300	2200	0.835	18,800	3.3	17,800	3.1	16,200	2.7	13,600	2.2						
328	2400	0.994			19,700	4.1	18,500	3.8	16,900	3.3	13,600	2.6				
355	2600	1.17			21,800	5.3	20,800	5.0	19,500	4.6	17,600	4.0	11,700	3.3		
382	2800	1.35			23,600	6.7	22,600	6.4	21,800	6.0	20,400	5.6	18,600	4.9	15,600	4.1
410	3000	1.55			25,600	8.3	24,800	8.1	24,000	7.7	22,800	7.2	21,400	6.7	19,700	5.9
437	3200	1.77			27,200	10	26,800	9.9	26,000	9.6	25,000	9.2	24,000	8.6	22,600	8.0
464	3400	2.00					28,600	12	28,000	12.0	27,200	11.5	26,400	11	25,400	10.0
491	3600	2.24					30,600	14	29,800	14.0	29,200	13.5	28,600	13	27,600	12.5
519	3800	2.49					32,400	17	31,800	16.5	31,200	16.5	30,600	16	29,800	15.5
546	4000	2.76							33,800	19.5	33,200	19	32,600	19	32,000	18.5
573	4200	3.04							35,600	23	35,200	22	34,600	22	34,000	22
600	4400	3.31							37,600	26	37,000	26	36,600	26	36,000	25
628	4600	3.65									39,000	30	38,400	29	38,000	29
655	4800	3.98									40,800	34	40,400	31	40,000	33
682	5000	4.31									42,600	38	42,400	38	41,800	38
716	5250	4.76											45,800	45	44,200	44
750	5500	5.22											46,800	52	46,600	50
785	5750	5.71													48,800	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs per sq inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
410	3000	1.55	16,900	5.1												
437	3200	1.77	21,000	7.2	14,100	4.9										
464	3400	2.00	24,000	9.5	20,000	7.7										
491	3600	2.24	26,600	12	23,600	10	18,700	8.0								
519	3800	2.49	29,000	15	26,800	13	23,400	11.5	17,200	8.4						
546	4000	2.76	31,200	18	29,400	16	27,200	14.5	23,000	12						
573	4200	3.04	33,400	21	31,800	20	30,000	18	27,000	16	22,800	13.5				
600	4400	3.34	35,600	25	34,200	24	32,600	22	30,200	20	27,200	17.5				
628	4600	3.65	37,600	29	36,200	27	34,800	26	33,200	24	30,800	22	22,800	16		
655	4800	3.98	39,600	33	38,400	32	37,000	30	35,600	29	33,800	27	28,000	22		
682	5000	4.31	41,600	38	40,400	37	39,400	35	38,000	33	36,600	32	32,000	27	23,600	20
716	5250	4.76	43,800	44	43,000	44	42,000	41	40,800	40	39,600	38	36,000	34	30,400	28
750	5500	5.22	46,200	50	45,400	50	44,600	49	43,600	47	42,400	46	39,400	41	35,400	36
785	5750	5.71	48,600	58	47,800	58	47,200	56	46,200	54	45,200	54	42,800	50	39,400	44
819	6000	6.21	50,800	66	50,200	66	49,600	64	48,800	62	47,800	62	45,600	58	43,000	54
854	6250	6.74	53,200	76	52,800	74	52,000	74	51,200	72	50,400	70	48,600	68	46,200	62
887	6500	7.29			54,800	84	54,400	82	53,600	82	53,000	82	51,200	78	49,200	74
921	6750	7.86			57,400	94	56,800	94	56,000	92	55,400	92	54,000	88	52,000	84
955	7000	8.45			59,600	105	59,200	105	58,600	105	58,000	105	56,400	100	54,800	96
1021	7500	9.71					63,800	130	63,200	130	62,800	130	61,600	125	60,200	120
1091	8000	11.04							68,000	155	67,400	155	66,600	150	65,200	150
1160	8500	12.48							72,600	190	72,200	190	71,200	190	70,200	185
1229	9000	14.00									76,600	220	76,000	220	75,200	220
1298	9500	15.58											80,800	260	79,800	260
1364	10000	17.27											85,200	310	84,600	300

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
750	5500	5.22	28,600	29												
785	5750	5.71	34,600	38	26,600	30										
819	6000	6.21	39,200	48	33,800	41										
854	6250	6.74	43,200	58	39,200	50										
887	6500	7.29	46,800	68	43,400	62	31,800	45								
921	6750	7.86	50,000	80	47,200	74	38,600	60								
955	7000	8.45	53,000	92	50,600	86	44,000	72	30,400	50						
1021	7500	9.71	58,600	115	56,800	110	52,200	100	44,800	82						
1091	8000	11.04	64,000	150	62,400	145	58,600	130	53,800	115	46,200	100				
1160	8500	12.48	69,200	180	68,000	175	64,800	165	61,000	150	55,600	135	48,000	115		
1229	9000	14.00	74,000	220	73,000	210	70,400	200	67,200	190	63,600	175	58,000	155	50,800	140
1298	9500	15.58	78,800	260	78,000	250	75,800	250	73,000	230	70,000	220	66,000	200	61,000	185
1364	10000	17.27	83,800	300	83,000	300	81,000	290	78,800	280	76,000	270	73,000	250	69,000	240

Double Inlet

Size "G" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
120	1010	0.176	5,720	0.20												
143	1200	0.249	11,000	0.54												
167	1400	0.338	14,100	0.98												
191	1600	0.441	16,700	1.55	13,600	1.15										
215	1800	0.559	19,500	2.3	17,300	2.0	12,200	1.35								
238	2000	0.690	21,800	3.2	20,100	2.9	17,500	2.4								
262	2200	0.835	24,100	4.3	23,000	4.0	21,200	3.6	17,800	2.8						
286	2400	0.994			25,800	5.4	24,200	5.0	22,000	4.3	17,800	3.4				
310	2600	1.17			28,400	6.9	27,000	6.6	25,400	6.0	23,000	5.2	19,100	4.3		
334	2800	1.35			30,800	8.7	29,400	8.3	28,400	7.9	26,600	7.2	24,200	6.4	20,400	5.4
358	3000	1.55			33,200	11	32,200	10.5	31,200	10.0	29,800	9.4	28,000	8.7	25,600	7.7
382	3200	1.77			35,600	13	34,800	13.0	33,800	12.5	32,600	12	31,200	11	29,600	10.5
406	3400	2.00					37,200	15.5	36,400	15.0	35,400	14.5	34,200	14	33,000	13.5
430	3600	2.24					39,800	18.5	39,000	18.5	38,200	18	37,200	17	36,000	16.5
453	3800	2.49					42,000	22	41,400	22	40,600	21	39,800	21	38,800	20
477	4000	2.76							44,000	26	43,200	25	42,400	25	41,600	24
501	4200	3.04							46,400	30	45,800	29	45,000	29	44,400	28
525	4400	3.34							48,800	34	48,200	34	47,600	33	47,000	33
549	4600	3.65									50,800	39	50,000	38	49,600	38
572	4800	3.98									53,000	44	52,600	44	52,000	43
596	5000	4.31									55,600	50	55,200	50	54,600	49
626	5250	4.76											58,000	58	57,600	58
656	5500	5.22											61,000	68	60,600	66
686	5750	5.71													63,800	76

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
358	3000	1.55	22,000	6.6												
382	3200	1.77	27,200	9.3	18,400	6.4										
406	3400	2.00	31,200	12.5	26,000	10.0										
430	3600	2.24	34,600	15.5	30,800	13.5	24,400	10.5								
453	3800	2.49	37,800	19	34,800	17	30,600	15	22,400	11						
477	4000	2.76	40,600	23	38,200	21	35,400	19	30,000	16						
501	4200	3.04	43,400	27	41,400	26	39,200	24	35,200	21	29,600	17.5				
525	4400	3.34	46,200	32	44,400	31	42,400	28	39,400	26	35,600	23				
549	4600	3.65	48,800	37	47,200	36	45,400	34	43,200	32	40,200	28	29,600	21		
572	4800	3.98	51,600	43	50,000	41	48,200	39	46,400	37	44,000	35	36,400	28		
596	5000	4.31	54,000	49	52,800	48	51,200	46	49,600	44	47,600	41	41,600	35	30,800	27
626	5250	4.76	57,200	58	56,000	56	54,600	54	53,200	52	51,600	50	47,000	44	39,600	37
656	5500	5.22	60,200	66	59,200	64	58,000	64	56,800	62	55,200	60	51,200	54	46,200	47
686	5750	5.71	63,200	76	62,400	74	61,400	74	60,000	72	58,800	70	55,800	64	51,400	58
716	6000	6.21	66,400	86	65,400	86	64,600	84	63,600	82	62,200	80	59,600	76	56,000	70
746	6250	6.74	69,400	98	68,600	98	67,600	96	66,800	94	65,600	92	63,200	88	60,200	82
775	6500	7.29			71,600	110	70,800	110	70,000	110	69,000	105	66,800	100	64,200	96
805	6750	7.86			74,600	125	73,800	120	73,000	120	72,200	120	70,200	115	67,800	110
835	7000	8.45			77,600	135	77,000	135	76,400	135	75,600	130	73,600	130	71,400	125
895	7500	9.71					83,000	170	82,400	170	81,800	170	80,200	165	78,400	160
955	8000	11.04							88,600	210	87,800	200	86,600	200	85,200	195
1014	8500	12.48							94,800	250	91,200	250	93,000	240	91,400	240
1074	9000	14.00									100,000	290	99,000	290	98,000	290
1133	9500	15.58											105,000	340	104,000	340
1193	10000	17.27											111,000	400	110,000	400

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
656	5500	5.22	37,400	38												
686	5750	5.71	45,200	50	34,600	39										
716	6000	6.21	51,200	62	44,000	54										
746	6250	6.74	56,400	74	51,000	66										
775	6500	7.29	60,800	90	56,600	80	41,600	60								
805	6750	7.86	65,000	105	61,600	96	50,400	76								
835	7000	8.45	69,000	120	66,000	110	57,200	94	39,600	66						
895	7500	9.71	76,200	150	74,000	150	67,800	130	58,400	110						
955	8000	11.04	83,200	190	81,200	185	76,400	170	70,000	150	60,000	130				
1014	8500	12.48	90,000	230	88,400	230	84,400	220	79,600	200	72,600	175	62,600	150		
1074	9000	14.00	96,200	280	95,000	280	91,600	270	87,400	250	82,800	230	75,600	200	66,200	180
1133	9500	15.58	103,000	340	102,000	330	98,800	320	95,200	300	91,400	290	86,000	260	79,400	240
1193	10000	17.27	109,000	400	108,000	390	106,000	380	103,000	370	99,000	350	95,200	330	89,800	310

Double Inlet

Size "H" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D in Inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
107	1010	0.176	7,280	0.25												
127	1200	0.249	13,940	0.69												
149	1400	0.338	17,960	1.25												
170	1600	0.441	21,200	1.95	17,300	1.5										
191	1800	0.559	24,600	2.9	22,000	2.5	15,500	1.7								
212	2000	0.690	27,600	4.0	25,800	3.7	22,200	3.0								
233	2200	0.835	31,000	5.4	29,200	5.1	26,800	4.5	22,600	3.6						
255	2400	0.994			32,600	6.8	30,600	6.3	27,800	5.5	22,600	4.4				
276	2600	1.17			36,200	8.7	34,200	8.3	32,200	7.6	29,200	6.6	24,200	5.5		
297	2800	1.35			39,000	11.0	37,400	10.5	36,000	10.0	33,800	9.2	30,800	8.1	25,800	6.8
318	3000	1.55			42,200	14.0	40,800	13.5	39,400	13.0	37,800	12	35,600	11	32,600	9.8
340	3200	1.77			45,200	16.5	44,000	16.5	42,800	16.0	41,400	15	39,600	14	37,400	13
361	3400	2.00					47,200	20	46,200	19.5	45,000	19	43,400	18	41,800	17
382	3600	2.21					50,400	24	49,400	23	48,400	23	47,000	22	45,600	21
403	3800	2.49					52,400	28	52,600	28	51,600	27	50,400	26	49,200	25
425	4000	2.76							55,600	33	54,800	32	53,800	31	52,800	30
445	4200	3.04							58,800	38	58,000	37	57,200	37	56,200	36
467	4400	3.34							62,000	44	61,200	43	60,400	42	59,600	42
488	4600	3.65									64,400	50	63,600	49	62,800	48
510	4800	3.98									67,400	56	66,600	56	66,000	54
531	5000	4.31									70,400	64	70,000	64	69,200	62
557	5250	4.76											73,600	74	73,000	74
584	5500	5.22											77,400	86	76,800	84
610	5750	5.71													80,600	96

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
318	3000	1.55	28,000	8.4												
340	3200	1.77	31,600	12	23,400	8.2										
361	3400	2.00	39,600	16	33,000	13										
382	3600	2.24	44,000	20	39,200	17	31,000	13.5								
403	3800	2.49	47,800	24	41,200	22	38,800	19	28,600	14						
425	4000	2.76	51,600	29	48,600	27	44,800	24	38,000	20						
445	4200	3.04	55,000	35	52,600	33	49,800	30	44,600	26	37,600	22				
467	4400	3.34	58,800	41	56,600	39	53,800	36	50,000	33	45,200	29				
488	4600	3.65	62,200	48	60,000	45	57,600	43	54,800	40	51,000	36	37,600	27.		
510	4800	3.98	65,400	54	63,400	52	61,200	50	58,800	47	55,800	44	46,200	36		
531	5000	4.31	68,600	62	67,000	60	65,000	58	62,800	56	60,400	52	52,800	44	39,000	33
557	5250	4.76	72,400	72	71,000	72	69,200	64	67,600	66	65,400	64	59,600	56	50,400	46
584	5500	5.22	76,400	84	75,000	82	73,600	80	71,800	78	70,000	76	65,000	68	58,600	60
610	5750	5.71	80,200	96	79,000	94	77,800	94	76,200	90	74,600	88	70,800	82	65,200	74
637	6000	6.21	84,200	110	83,000	110	82,000	110	80,600	105	79,000	105	75,600	96	71,000	88
663	6250	6.74	88,000	125	87,200	125	85,800	120	84,800	120	83,200	115	80,000	110	76,400	105
690	6500	7.29			90,800	140	90,000	135	88,800	135	87,600	130	84,600	130	81,400	120
716	6750	7.86			94,800	155	93,600	155	92,600	150	91,600	150	89,200	145	86,000	140
743	7000	8.45			98,400	175	97,600	170	96,800	170	95,800	170	93,200	165	90,600	160
796	7500	9.71					105,400	210	104,000	210	104,000	210	102,000	210	99,400	200
849	8000	11.04							112,000	260	111,000	260	110,000	250	108,000	250
902	8500	12.48							120,000	310	119,000	310	118,000	310	116,000	300
955	9000	14.00									127,000	370	126,000	370	124,000	360
1008	9500	15.58											133,000	440	132,000	430
1060	10000	17.27											141,000	510	140,000	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
584	5500	5.22	47,400	48												
610	5750	5.71	57,200	64	43,800	49										
637	6000	6.21	65,000	78	55,800	68										
663	6250	6.74	71,600	94	64,600	84										
690	6500	7.29	77,200	110	71,800	100	52,800	76								
716	6750	7.86	82,400	130	78,000	120	64,000	98								
743	7000	8.45	87,400	150	83,800	140	72,600	120	50,200	84						
796	7500	9.71	96,800	195	94,000	190	86,200	165	74,000	135						
849	8000	11.04	106,000	240	103,000	240	97,000	220	88,800	190	76,200	165				
902	8500	12.48	114,000	300	112,000	290	107,000	270	101,000	250	92,000	220	79,400	190		
955	9000	14.00	122,000	360	121,000	350	116,000	340	111,000	320	105,000	290	96,000	260	84,000	230
1008	9500	15.58	131,000	430	129,000	420	125,000	410	121,000	390	116,000	360	109,000	340	101,000	300
1060	10000	17.27	138,000	500	137,000	500	134,000	480	130,000	460	126,000	440	121,000	420	114,000	390

Double Inlet

Size "J" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
96	1010	0.176	8,960	0.31												
115	1200	0.249	17,200	0.85												
134	1400	0.338	22,200	1.50												
153	1600	0.441	26,200	0.24	21,400	1.85										
172	1800	0.559	30,400	3.6	27,200	3.1	19,100	2.1								
191	2000	0.690	34,200	4.9	31,800	4.5	27,400	3.7								
210	2200	0.835	38,200	6.7	36,200	6.3	33,200	5.6	27,800	4.4						
229	2400	0.991			40,200	8.4	37,800	7.8	34,400	6.8	27,800	5.4				
248	2600	1.17			44,600	11.0	42,200	10.0	39,600	9.4	36,000	8.2	30,000	6.8		
268	2800	1.35			48,200	13.5	46,200	13.0	44,400	12.5	41,600	11.5	38,000	10.0	31,800	8.4
287	3000	1.55			52,000	17	50,400	16.5	48,800	16.0	46,600	15	43,800	14.0	40,200	12
306	3200	1.77			55,600	21	54,400	20	53,000	19.5	51,200	19	49,000	17.5	46,200	16
325	3400	2.00					58,200	21	57,000	24	55,600	23	53,600	22	51,600	21
344	3600	2.24					62,200	29	60,800	29	59,600	28	58,200	27	56,200	26
363	3800	2.49					66,000	31	65,000	34	63,600	34	62,200	32	60,800	31
382	4000	2.76							68,800	40	67,600	39	66,400	38	65,200	37
401	4200	3.04							72,600	46	71,600	46	70,600	45	69,400	44
420	4400	3.34							76,400	51	75,600	54	74,600	52	73,400	52
440	4600	3.65									79,400	62	78,400	60	77,400	60
459	4800	3.98									83,000	70	82,200	68	81,400	68
478	5000	4.31									87,000	78	86,200	78	85,200	78
501	5250	4.76											90,800	92	90,000	90
525	5500	5.22											95,800	105	95,000	105
549	5750	5.71													99,800	120

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
287	3000	1.55	34,400	10.5												
306	3200	1.77	42,800	14.5	28,800	10										
325	3400	2.00	48,800	19.5	40,880	16										
344	3600	2.24	54,400	25	48,400	21	38,200	16.5								
363	3800	2.49	59,000	30	54,600	27	47,800	23	35,200	17						
382	4000	2.76	63,600	36	60,000	33	55,400	30	47,000	25						
401	4200	3.04	68,000	43	65,000	40	61,400	37	55,000	32	46,400	27				
420	4400	3.34	72,400	50	69,600	48	66,400	45	61,600	41	55,600	36				
440	4600	3.65	76,600	58	74,000	56	71,000	52	67,600	49	62,800	45	46,400	33		
459	4800	3.98	80,800	68	78,200	64	75,600	62	72,800	58	68,800	51	57,000	41		
478	5000	4.31	84,600	76	82,600	74	80,200	72	77,400	68	74,400	64	65,200	51	48,200	41
501	5250	4.76	89,400	90	87,800	88	85,600	84	83,400	82	80,800	78	73,600	68	62,000	58
525	5500	5.22	94,200	105	92,600	100	91,000	100	88,800	96	86,400	92	80,200	84	72,200	74
549	5750	5.71	99,000	120	97,600	115	96,000	115	94,200	110	92,000	110	87,200	100	80,600	90
574	6000	6.21	104,000	135	103,000	130	101,000	130	99,400	130	97,600	130	93,200	120	87,800	110
597	6250	6.74	109,000	150	107,000	150	106,000	150	104,000	150	103,000	145	99,000	135	94,200	130
621	6500	7.29			112,000	170	111,000	170	109,000	170	108,000	165	104,000	155	100,000	150
645	6750	7.86			117,000	190	116,000	190	114,000	190	113,000	190	110,000	180	106,000	170
669	7000	8.45			121,000	220	120,000	210	119,000	210	118,000	210	115,000	200	112,000	195
716	7500	9.71					130,000	270	129,000	260	128,000	260	126,000	260	123,000	250
764	8000	11.04							138,000	320	137,000	320	136,000	310	133,000	310
812	8500	12.48							148,000	390	147,000	380	145,000	380	143,000	380
860	9000	14.00									156,000	460	155,000	460	153,000	450
908	9500	15.58											165,000	540	163,000	530
955	10000	17.27											174,400	630	172,000	620

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
525	5500	5.22	58,400	60												
549	5750	5.71	70,800	78	54,200	60										
574	6000	6.21	80,000	96	68,800	84										
597	6250	6.74	88,200	115	79,600	105										
621	6500	7.29	95,200	140	88,600	125	65,000	92								
645	6750	7.86	102,000	160	96,200	150	78,800	120								
669	7000	8.45	108,000	190	103,000	175	89,600	150	82,000	105						
716	7500	9.71	119,000	240	116,000	230	106,000	200	91,200	165						
764	8000	11.04	130,000	300	127,000	290	120,000	270	110,000	240	94,000	200				
812	8500	12.48	141,000	370	138,000	360	132,000	340	124,000	310	114,000	280	98,000	240		
860	9000	14.00	151,000	440	149,000	430	144,000	420	137,000	390	130,000	360	118,000	320	104,000	280
908	9500	15.58	161,000	530	159,000	520	155,000	500	149,000	480	143,000	450	135,000	410	124,000	380
955	10000	17.27	171,000	620	169,000	610	165,000	600	160,000	570	155,000	550	149,000	520	141,000	480

Double Inlet # Size "K" Supervane Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
84	1010	0.176	11,880	0.41												
100	1200	0.249	22,800	1.1												
116	1400	0.338	29,400	2.1												
133	1600	0.411	34,600	3.2	28,400	2.4										
150	1800	0.559	40,400	4.7	36,000	4.1	25,400	2.8								
166	2000	0.690	45,200	6.5	42,200	6.0	36,400	2.9								
183	2200	0.835	50,800	8.9	48,000	8.1	41,000	7.4	37,000	5.8						
199	2400	0.994			53,400	11.0	50,200	10.5	45,600	9.0	37,000	7.1				
216	2600	1.17			59,200	14.5	56,000	13.5	52,600	12.5	47,800	11	39,600	9		
233	2800	1.35			63,800	18	61,200	17	58,800	16.5	55,200	15	50,400	13	42,200	11
249	3000	1.55			69,000	23	66,800	22	64,600	21	61,800	20	58,200	18	53,200	16
266	3200	1.77			73,800	27	72,200	27	70,200	26	67,800	25	65,000	23	61,100	22
282	3400	2.00					77,200	32	75,600	32	73,600	30	71,000	29	68,600	28
299	3600	2.24					82,600	39	80,800	38	79,200	37	77,200	36	71,600	34
316	3800	2.49					87,400	46	86,200	45	84,400	44	82,600	43	80,600	42
332	4000	2.76							91,200	54	89,800	52	88,200	52	86,400	50
349	4200	3.04							96,200	62	95,000	60	93,600	60	92,000	58
365	4400	3.34							101,000	72	100,000	70	99,000	70	97,400	68
382	4600	3.65									105,000	82	101,000	80	103,000	78
399	4800	3.98									110,000	92	109,000	92	108,000	90
415	5000	4.31									115,000	105	111,000	105	113,000	105
436	5250	4.76											121,000	120	120,000	120
456	5500	5.22											127,000	140	126,000	135
477	5750	5.71													132,000	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
249	3000	1.55	45,600	14												
266	3200	1.77	56,800	19	38,200	13										
282	3400	2.00	64,800	26	54,000	21										
299	3600	2.21	72,000	33	61,000	28	50,800	22								
316	3800	2.49	78,400	40	72,400	36	63,400	31	46,600	23						
332	4000	2.76	84,400	48	79,600	44	73,400	40	62,200	33						
349	4200	3.04	90,200	56	86,200	54	81,400	49	73,000	43	61,600	36				
365	4400	3.34	96,200	66	92,400	64	88,000	60	81,800	54	73,800	48				
382	4600	3.65	102,000	78	98,200	74	94,200	70	89,600	66	83,400	60	61,400	44		
399	4800	3.98	107,000	90	104,000	86	100,000	82	96,400	78	91,400	72	75,600	58		
415	5000	4.31	112,000	105	109,000	98	106,000	94	103,000	90	98,800	86	86,600	72	63,800	54
436	5250	4.76	119,000	120	116,000	115	113,000	110	111,000	110	107,000	105	97,600	92	82,400	76
456	5500	5.22	125,000	135	123,000	135	121,000	130	118,000	130	115,000	125	107,000	110	96,000	96
477	5750	5.71	131,000	155	130,000	155	127,000	150	125,000	150	122,000	145	116,000	135	107,000	120
498	6000	6.21	138,000	180	136,000	175	134,000	175	132,000	170	129,000	170	124,000	155	116,000	145
519	6250	6.74	141,000	200	142,000	200	140,000	200	139,000	195	136,000	190	131,000	185	125,000	170
510	6500	7.29			149,000	230	147,000	220	145,000	220	143,000	220	138,000	210	133,000	200
560	6750	7.86			155,000	260	153,000	250	152,000	250	150,000	250	146,000	240	141,000	230
581	7000	8.45			161,000	290	160,000	280	158,000	280	157,000	280	153,000	270	148,000	260
623	7500	9.71					172,000	350	171,000	350	170,000	340	167,000	340	163,000	330
664	8000	11.04							184,000	430	182,000	420	180,000	420	177,000	410
705	8500	12.48							197,000	510	195,000	510	193,000	510	190,000	500
747	9000	14.00									207,000	610	205,000	600	204,000	600
788	9500	15.58											218,000	710	216,000	700
930	10000	17.27											230,000	830	228,000	830

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
456	5500	5.22	77,400	78												
477	5750	5.71	93,800	105	71,800	80										
498	6000	6.21	106,000	130	91,200	110										
519	6250	6.74	117,000	155	106,000	135										
510	6500	7.29	126,000	185	118,000	170	86,200	125								
560	6750	7.86	135,000	210	128,000	200	105,000	160								
581	7000	8.45	143,000	250	137,000	230	119,000	190	82,400	135						
623	7500	9.71	158,000	320	154,000	300	141,000	270	121,000	220						
664	8000	11.04	173,000	400	169,000	390	159,000	350	145,000	310	125,000	270				
705	8500	12.48	187,000	490	184,000	480	175,000	450	165,000	410	151,000	370	130,000	320		
747	9000	14.00	200,000	590	198,000	580	190,000	550	181,000	520	172,000	480	157,000	420	137,000	370
788	9500	15.58	214,000	700	212,000	690	206,000	660	198,000	630	190,000	600	179,000	550	165,000	500
930	10000	17.27	226,000	820	224,000	810	220,000	790	212,000	760	208,000	720	198,000	680	187,000	640

Double Inlet **Double Width**

Size "L" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
74	1010	0.176	15,100	0.52												
88	1200	0.219	29,000	1.15												
103	1400	0.338	37,400	2.6												
118	1600	0.441	41,200	4.1	36,000	3.1										
132	1800	0.559	51,600	6.0	45,800	5.2	32,400	3.5								
147	2000	0.690	57,800	8.3	53,800	7.6	46,400	6.2								
162	2200	0.835	64,800	11.5	61,200	10.5	56,000	9.4	47,000	7.5						
176	2400	0.994			68,000	14	64,000	13.0	58,200	11	47,000	9.1				
191	2600	1.17			75,400	18	71,600	17.5	67,000	16	60,800	14	50,600	11.5		
206	2800	1.35			81,400	23	78,000	22	75,000	21	70,400	19	64,000	17	53,800	14
220	3000	1.55			88,000	29	85,200	28	82,400	27	78,800	25	74,000	23	67,800	20
235	3200	1.77			91,000	35	92,000	34	89,400	33	86,400	32	82,800	30	78,200	27
250	3400	2.00					98,600	41	96,400	40	93,800	39	90,600	37	87,200	35
264	3600	2.24					105,000	49	103,000	49	101,000	47	98,200	46	95,000	44
279	3800	2.49					111,000	58	110,000	58	107,000	56	105,000	54	103,000	54
294	4000	2.76							116,000	68	114,000	66	112,000	64	110,000	64
309	4200	3.01							123,000	78	121,000	78	119,000	76	117,000	74
323	4400	3.34							130,000	90	128,000	90	126,000	88	124,000	88
338	4600	3.65									134,000	105	133,000	100	131,000	100
353	4800	3.98									140,000	115	139,000	115	138,000	115
368	5000	4.31									147,000	130	146,000	130	144,000	130
386	5250	4.76											154,000	150	152,000	150
404	5500	5.22											162,000	175	160,000	175
423	5750	5.71													169,000	200

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
220	3000	1.55	58,200	18												
235	3200	1.77	72,200	25	48,800	17										
250	3400	2.00	82,600	33	68,800	27										
264	3600	2.24	91,800	41	81,600	35	64,600	28								
279	3800	2.49	99,800	50	92,200	46	80,800	39	59,400	29						
294	4000	2.76	108,000	62	101,000	56	93,600	50	79,400	42						
309	4200	3.01	115,000	72	110,000	68	104,000	62	93,000	54	78,600	46				
323	4400	3.34	122,000	86	118,000	82	112,000	76	104,000	68	94,000	60				
338	4600	3.65	129,000	98	125,000	94	120,000	90	114,000	82	106,000	76	78,400	56		
353	4800	3.98	136,000	110	132,000	110	128,000	105	183,000	98	116,000	92	96,400	71		
368	5000	4.31	143,000	130	139,000	130	135,000	120	131,000	115	126,000	110	110,000	92	81,200	68
386	5250	4.76	151,000	150	148,000	150	144,000	145	141,000	140	136,000	130	124,000	115	105,000	96
404	5500	5.22	159,000	175	156,000	170	154,000	170	150,000	160	146,000	155	136,000	140	122,000	125
423	5750	5.71	167,000	200	165,000	200	162,000	195	159,000	190	156,000	185	148,000	170	136,000	150
441	6000	6.21	175,000	230	173,000	230	171,000	220	168,000	220	165,000	210	158,000	200	148,000	185
459	6250	6.74	184,000	260	182,000	260	179,000	250	177,000	250	174,000	240	167,000	230	159,000	220
478	6500	7.29			189,000	290	187,000	290	185,000	280	183,000	280	176,000	270	170,000	250
496	6750	7.86			198,000	330	195,000	320	193,000	320	191,000	320	186,000	300	179,000	290
514	7000	8.15			206,000	360	204,000	360	202,000	360	200,000	350	195,000	340	189,000	330
551	7500	9.71					220,000	450	218,000	440	216,000	440	212,000	430	208,000	420
588	8000	11.04							234,000	540	232,000	540	230,000	530	226,000	520
625	8500	12.48							250,000	650	248,000	650	246,000	640	242,000	630
661	9000	14.00									264,000	770	262,000	770	258,000	760
698	9500	15.58											278,000	910	276,000	900
734	10000	17.27											294,000	1060	292,000	1050

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
404	5500	5.22	98,800	100												
423	5750	5.71	120,000	130	91,600	105										
441	6000	6.21	135,000	165	116,000	140										
459	6250	6.74	149,000	195	135,000	175										
478	6500	7.29	161,000	230	150,000	210	110,000	155								
496	6750	7.86	172,000	270	163,000	250	133,000	200								
514	7000	8.45	182,000	310	175,000	300	151,000	250	105,000	175						
551	7500	9.71	202,000	400	196,000	390	180,000	340	154,000	280						
588	8000	11.04	220,000	510	216,000	490	202,000	450	185,000	400	159,000	340				
625	8500	12.48	238,000	620	234,000	610	224,000	570	210,000	520	192,000	460	166,000	400		
661	9000	14.00	254,000	750	252,000	730	242,000	700	232,000	660	218,000	610	200,000	540	175,000	480
698	9500	15.58	272,000	890	270,000	880	262,000	850	252,000	810	242,000	760	228,000	700	210,000	630
734	10000	17.27	288,000	1050	286,000	1030	280,000	1010	272,000	970	262,000	920	252,000	870	238,000	810

Double Inlet

Size "M" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .438 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
66	1010	0.176	18,900	0.65												
79	1200	0.249	36,000	1.8												
92	1400	0.338	46,600	3.2												
105	1600	0.441	55,000	5.1	49,000	3.9										
118	1800	0.559	64,200	7.5	57,200	6.4	40,200	4.4								
132	2000	0.690	71,800	10.5	67,000	9.5	57,600	7.8								
145	2200	0.835	80,600	14	76,000	13.0	69,800	12.0	58,600	9.3						
158	2400	0.994			84,800	17.5	79,600	16.5	72,400	14.5	58,600	11.5				
171	2600	1.17			93,800	23	89,000	22	83,400	20	75,800	17	63,000	14		
184	2800	1.35			101,000	29	97,000	27	93,200	26	87,600	24	79,800	21	67,000	17.5
197	3000	1.55			109,000	36	106,000	35	103,000	33	98,000	31	92,200	29	84,400	25
210	3200	1.77			117,000	43	115,000	43	111,000	41	108,000	39	103,000	37	97,200	34
224	3400	2.00					123,000	52	120,000	50	117,000	49	113,000	46	109,000	44
237	3600	2.24					131,000	62	128,000	60	126,000	58	122,000	56	118,000	54
250	3800	2.49					139,000	72	137,000	72	134,000	70	131,000	68	128,000	66
263	4000	2.76							145,000	84	142,000	82	140,000	80	137,000	78
276	4200	3.04							153,000	98	151,000	96	148,000	94	146,000	94
290	4400	3.34							161,000	110	159,000	110	157,000	110	155,000	110
303	4600	3.65									167,000	130	165,000	130	163,000	125
316	4800	3.98									175,000	145	173,000	145	171,000	145
329	5000	4.31									183,000	165	182,000	165	180,000	165
345	5250	4.76											191,000	190	190,000	190
362	5500	5.22											202,000	220	200,000	220
378	5750	5.71													210,000	250

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs per sq inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
197	3000	1.55	72,400	22												
210	3200	1.77	90,000	31	60,600	21										
221	3400	2.00	103,000	41	85,800	33										
237	3600	2.24	114,000	52	102,000	44	80,400	35								
250	3800	2.49	124,000	64	115,000	56	101,000	49	74,000	36						
263	4000	2.76	134,000	76	126,000	70	117,000	62	98,800	52						
276	4200	3.04	143,000	90	137,000	84	129,000	78	116,000	68	97,600	58				
290	4400	3.34	152,000	110	147,000	100	140,000	94	130,000	86	117,000	76				
303	4600	3.65	161,000	125	156,000	115	150,000	110	142,000	105	132,000	94	97,600	70		
316	4800	3.98	170,000	140	165,000	135	159,000	130	153,000	125	145,000	115	120,000	92		
329	5000	4.31	178,000	160	174,000	155	169,000	150	163,000	145	157,000	135	137,000	115	101,000	86
345	5250	4.76	188,000	190	184,000	190	180,000	175	175,000	170	170,000	165	155,000	145	131,000	120
362	5500	5.22	198,000	220	195,000	210	191,000	210	187,000	200	182,000	195	169,000	175	152,000	150
378	5750	5.71	208,000	250	206,000	250	202,000	240	198,000	240	194,000	230	184,000	210	170,000	190
395	6000	6.21	218,000	280	216,000	280	212,000	280	210,000	270	206,000	270	196,000	250	185,000	230
411	6250	6.74	228,000	320	226,000	320	222,000	320	220,000	310	216,000	300	208,000	290	198,000	270
428	6500	7.29			236,000	360	234,000	360	230,000	350	228,000	350	220,000	330	212,000	310
444	6750	7.86			246,000	410	244,000	400	240,000	400	238,000	390	232,000	380	224,000	360
460	7000	8.45			256,000	450	254,000	450	252,000	450	248,000	440	242,000	430	234,000	410
494	7500	9.71					271,000	560	272,000	550	270,000	550	264,000	540	258,000	520
526	8000	11.04							292,000	680	290,000	670	286,000	660	280,000	650
560	8500	12.48							312,000	810	310,000	810	306,000	800	300,000	790
592	9000	14.00									330,000	960	326,000	960	322,000	940
625	9500	15.58											346,000	1130	342,000	1120
659	10000	17.27											366,000	1320	362,000	1310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
362	5500	5.22	123,000	125												
378	5750	5.71	149,000	165	114,000	130										
395	6000	6.21	169,000	200	145,000	175										
411	6250	6.74	186,000	250	168,000	220										
428	6500	7.29	200,000	290	186,000	260	137,000	195								
414	6750	7.86	214,000	340	202,000	320	166,000	250								
460	7000	8.45	228,000	390	218,000	370	188,000	310	131,000	220						
494	7500	9.71	252,000	500	244,000	480	221,000	430	192,000	350						
526	8000	11.04	274,000	630	268,000	610	252,000	560	230,000	500	198,000	420				
560	8500	12.48	296,000	770	292,000	760	278,000	710	262,000	650	240,000	580	206,000	500		
592	9000	14.00	318,000	930	314,000	910	302,000	870	288,000	820	272,000	760	250,000	670	218,000	590
625	9500	15.58	338,000	1110	336,000	1090	326,000	1050	314,000	1000	300,000	940	284,000	870	262,000	790
659	10000	17.27	360,000	1300	356,000	1290	348,000	1260	338,000	1210	326,000	1150	314,000	1090	296,000	1010

Double Inlet # Size "N" Supervane Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
60	1010	0.176	23,000	0.8												
72	1200	0.249	41,000	2.2												
84	1400	0.338	56,600	3.9												
95	1600	0.441	66,800	6.2	54,600	4.7										
107	1800	0.559	78,000	9.2	69,100	7.8	49,000	5.3								
119	2000	0.690	87,200	12.5	81,400	11.5	70,000	9.1								
131	2200	0.835	98,000	17	92,400	16	85,000	14	71,200	11.5						
143	2400	0.994			103,000	21	96,800	20	88,200	17.5	71,200	14				
155	2600	1.17			114,000	28	108,000	26	101,000	24	92,000	21	76,400	17.5		
167	2800	1.35			123,000	35	118,000	33	114,000	31	107,000	29	97,000	25	81,400	21
179	3000	1.55			133,000	44	129,000	42	125,000	40	119,000	38	112,000	35	103,000	31
191	3200	1.77			142,000	52	139,000	52	135,000	50	131,000	48	125,000	45	118,000	42
203	3400	2.00					149,000	62	146,000	62	142,000	60	137,000	56	132,000	54
215	3600	2.24					159,000	74	156,000	74	153,000	72	149,000	70	144,000	70
227	3800	2.49					169,000	88	166,000	86	163,000	86	159,000	82	155,000	80
239	4000	2.76							176,000	105	173,000	100	170,000	98	167,000	96
251	4200	3.04							186,000	120	183,000	115	181,000	115	178,000	110
263	4400	3.31							196,000	135	193,000	135	191,000	130	188,000	130
274	4600	3.65									204,000	155	200,000	150	198,000	150
286	4800	3.98									212,000	175	210,000	175	208,000	170
298	5000	4.31									222,000	200	220,000	200	218,000	195
313	5250	4.76											232,000	230	230,000	230
328	5500	5.22											244,000	270	242,000	270
343	5750	5.71													256,000	310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
179	3000	1.55	88,000	27												
191	3200	1.77	109,000	37	73,800	26										
203	3400	2.00	125,000	50	104,000	40										
215	3600	2.24	139,000	62	124,000	54	118,000	43								
227	3800	2.49	151,000	76	140,000	70	122,000	60	90,000	44						
239	4000	2.76	163,000	92	153,000	86	142,000	76	120,000	64						
251	4200	3.04	174,000	110	166,000	105	157,000	94	141,000	82	119,000	70				
263	4400	3.31	185,000	130	178,000	125	170,000	115	158,000	105	142,000	92				
274	4600	3.65	196,000	150	189,000	145	182,000	135	173,000	130	161,000	115	119,000	84		
286	4800	3.98	206,000	170	200,000	165	193,000	155	186,000	150	176,000	140	146,000	110		
298	5000	4.31	216,000	195	212,000	190	206,000	185	198,000	175	191,000	165	167,000	140	123,000	105
313	5250	4.76	228,000	230	224,000	230	218,000	220	214,000	210	206,000	200	188,000	175	159,000	150
328	5500	5.22	240,000	260	236,000	260	232,000	250	228,000	250	222,000	240	206,000	210	185,000	190
343	5750	5.71	254,000	300	250,000	300	246,000	290	240,000	290	236,000	280	224,000	260	206,000	230
358	6000	6.21	266,000	340	262,000	310	258,000	340	254,000	330	250,000	320	238,000	300	224,000	280
373	6250	6.74	278,000	390	274,000	390	270,000	380	268,000	380	264,000	370	254,000	350	242,000	330
388	6500	7.29			286,000	440	282,000	410	280,000	430	276,000	420	268,600	400	256,000	380
403	6750	7.86			300,000	490	296,000	490	292,000	480	290,000	480	282,000	460	272,000	440
418	7000	8.45			310,000	550	308,000	550	306,000	540	302,000	540	294,000	520	286,000	500
448	7500	9.71					332,000	680	330,000	670	328,000	660	322,000	660	314,000	640
477	8000	11.04							354,000	820	352,000	810	348,000	800	340,000	790
507	8500	12.48							380,000	990	376,000	980	372,000	980	366,000	960
536	9000	14.00									400,000	1190	396,000	1160	392,000	1150
567	9500	15.58											422,000	1380	416,000	1360
596	10000	17.27											444,000	1610	440,000	1590

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
328	5500	5.22	150,000	150												
343	5750	5.71	181,000	210	138,000	155										
358	6000	6.21	206,000	250	176,000	210										
373	6250	6.74	226,000	300	201,000	270										
388	6500	7.29	244,000	360	226,000	320	166,000	240								
403	6750	7.86	260,000	410	246,000	380	202,000	310								
418	7000	8.45	276,000	480	264,000	450	230,000	370	159,000	260						
448	7500	9.71	306,000	610	296,000	590	272,000	520	234,000	420						
477	8000	11.04	334,000	770	326,000	740	306,000	680	280,000	600	240,000	520				
507	8500	12.48	360,000	940	354,000	920	338,000	860	318,000	800	290,000	700	250,000	610		
536	9000	14.00	396,000	1130	382,000	1110	368,000	1060	350,000	1000	332,000	920	304,000	820	266,000	720
567	9500	15.58	412,000	1350	408,000	1330	396,000	1280	382,000	1220	366,000	1150	344,000	1060	318,000	960
596	10000	17.27	436,000	1580	434,000	1570	422,000	1530	410,000	1470	398,000	1400	382,000	1320	360,000	1230

Double Inlet **Double Width**

Size "P" Supervane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
55	1010	0.176	27,600	1.0												
65	1200	0.249	52,800	2.6												
76	1400	0.338	68,000	4.7												
87	1600	0.441	80,200	7.4	65,400	5.6										
98	1800	0.559	93,600	11	83,200	9.4	78,600	6.4								
109	2000	0.690	105,000	15	97,600	14	81,000	11.5								
120	2200	0.835	117,000	21	111,000	19	102,000	17	85,400	14						
131	2400	0.994			124,000	26	116,000	24	106,000	21	85,400	16.5				
142	2600	1.17			137,000	33	130,000	32	122,000	29	110,000	25	91,800	21		
153	2800	1.35			148,000	42	141,000	40	136,000	38	128,000	35	116,000	31	97,800	26
164	3000	1.55			160,000	52	155,000	50	150,000	48	143,000	45	135,000	42	123,000	37
174	3200	1.77			171,000	62	167,000	62	162,000	60	157,000	58	150,000	54	142,000	50
185	3400	2.00					179,000	76	175,000	74	170,000	70	161,000	68	159,000	64
196	3600	2.24					191,000	90	187,000	88	183,000	86	178,000	82	173,000	80
207	3800	2.49					202,000	105	199,000	105	195,000	105	191,000	100	186,000	96
218	4000	2.76							212,000	125	208,000	120	204,000	115	200,000	115
229	4200	3.04							222,000	145	220,000	140	216,000	140	212,000	135
240	4400	3.34							234,000	165	232,000	165	230,000	160	226,000	160
251	4600	3.65									244,000	190	240,000	185	238,000	185
262	4800	3.98									254,000	210	252,000	210	250,000	210
273	5000	4.31									266,000	240	264,000	240	262,000	240
286	5250	4.76											280,000	280	276,000	280
300	5500	5.22											294,000	320	292,000	320
314	5750	5.71													306,000	370

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
164	3000	1.55	106,000	32												
174	3200	1.77	131,000	45	88,400	31										
185	3400	2.00	150,000	60	125,000	48										
196	3600	2.24	167,000	76	148,000	64	117,000	52								
207	3800	2.49	181,000	92	168,000	82	147,000	70	108,000	52						
218	4000	2.76	195,000	110	184,000	105	170,000	92	140,000	78						
229	4200	3.04	208,000	130	199,000	125	188,000	110	169,000	100	143,000	84				
240	4400	3.34	222,000	155	214,000	150	204,000	135	189,000	125	171,000	110				
251	4600	3.65	236,000	180	228,000	170	218,000	165	208,000	150	193,000	135	142,000	100		
262	4800	3.98	248,000	210	240,000	200	232,000	190	224,000	180	212,000	170	175,000	135		
273	5000	4.31	260,000	240	254,000	230	246,000	220	238,000	210	228,000	195	200,000	170	147,000	125
286	5250	4.76	274,000	270	270,000	270	262,000	260	256,000	250	248,000	240	226,000	210	190,000	175
300	5500	5.22	290,000	320	284,000	310	280,000	310	272,000	300	266,000	280	246,000	260	222,000	220
314	5750	5.71	304,000	360	300,000	360	296,000	350	288,000	340	282,000	330	268,000	310	248,000	280
327	6000	6.21	318,000	410	314,000	410	310,000	410	306,000	400	300,000	390	286,000	360	270,000	330
341	6250	6.74	334,000	470	330,000	470	326,000	460	320,000	450	316,000	440	304,000	420	290,000	390
354	6500	7.29			344,000	530	340,000	520	336,000	510	332,000	510	320,000	480	308,000	460
368	6750	7.86			358,000	590	356,000	580	350,000	580	346,000	570	338,000	550	326,000	520
382	7000	8.45			372,000	660	370,000	600	366,000	650	362,000	640	354,000	620	342,000	600
409	7500	9.71					398,000	810	396,000	810	392,000	800	386,000	790	376,000	760
436	8000	11.01							426,000	990	422,000	980	416,000	960	408,000	940
464	8500	12.48							454,000	1180	452,000	1180	446,000	1170	438,000	1150
490	9000	14.00									480,000	1400	476,000	1400	470,000	1380
518	9500	15.58											504,000	1650	500,000	1630
545	10000	17.27											534,000	1930	530,000	1910

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
300	5500	5.22	179,000	185												
314	5750	5.71	218,000	240	166,000	190										
327	6000	6.21	246,000	300	212,000	260										
341	6250	6.74	270,000	360	244,000	320										
354	6500	7.29	292,000	420	272,000	390	199,000	280								
367	6750	7.86	312,000	500	296,000	460	212,000	370								
382	7000	8.45	332,000	570	318,000	540	274,000	450	191,000	320						
409	7500	9.71	366,000	710	356,000	700	326,000	630	280,000	510						
436	8000	11.01	400,000	920	390,000	890	368,000	820	336,000	720	288,000	620				
464	8500	12.48	432,000	1130	424,000	1100	406,000	1030	382,000	950	348,000	840	300,000	730		
490	9000	14.00	462,000	1360	456,000	1330	440,000	1270	420,000	1190	398,000	1100	364,000	980	318,000	870
518	9500	15.58	491,000	1620	488,000	1590	474,000	1540	456,000	1460	438,000	1380	414,000	1270	382,000	1150
545	10000	17.27	524,000	1900	520,000	1880	506,000	1830	492,000	1700	476,000	1680	458,000	1580	432,000	1470

Double Inlet

Size "Q" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
51	1010	0.176	32,100	1.1												
60	1200	0.249	62,200	3.1												
70	1400	0.338	80,000	5.5												
80	1600	0.441	94,400	8.8	77,200	6.6										
90	1800	0.559	110,000	13	98,000	11.0	69,200	7.5								
100	2000	0.690	123,000	18	115,000	16.5	99,000	13.5								
111	2200	0.835	138,000	24	131,000	23	120,000	20	101,000	16						
121	2400	0.994			146,000	30	137,000	28	125,000	25	101,000	19.5				
131	2600	1.17			161,000	39	153,000	37	143,000	34	130,000	30	108,000	25		
141	2800	1.35			174,000	49	167,000	47	160,000	44	151,000	41	137,000	36	115,000	30
151	3000	1.55			188,000	62	182,000	60	176,000	56	168,000	54	158,000	49	145,000	44
161	3200	1.77			202,000	74	197,000	74	191,000	70	185,000	68	177,000	64	167,000	58
171	3400	2.00					210,000	88	206,000	86	200,000	84	194,000	80	187,000	76
181	3600	2.24					226,000	105	220,000	105	216,000	100	210,000	98	204,000	94
191	3800	2.49					238,000	125	234,000	125	230,000	120	226,000	115	220,000	110
201	4000	2.76							248,000	145	244,000	140	240,000	140	236,000	135
211	4200	3.04							262,000	170	260,000	165	256,000	165	250,000	160
221	4400	3.34							276,000	190	274,000	190	270,000	190	266,000	190
231	4600	3.65									288,000	220	284,000	220	280,000	220
241	4800	3.98									300,000	250	298,000	250	294,000	250
251	5000	4.31									314,000	280	312,000	280	308,000	280
264	5250	4.76											328,000	330	326,000	330
276	5500	5.22											346,000	380	344,000	380
289	5750	5.71													360,000	430

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
151	3000	1.55	121,000	38												
161	3200	1.77	155,000	52	104,000	36										
171	3400	2.00	177,000	70	147,000	58										
181	3600	2.24	196,000	88	175,000	76	138,000	60								
191	3800	2.49	214,000	110	197,000	98	173,000	84	127,000	62						
201	4000	2.76	230,000	130	216,000	120	200,000	110	170,000	90						
211	4200	3.04	246,000	155	234,000	145	222,000	130	199,000	115	168,000	100				
221	4400	3.34	262,000	185	252,000	172	240,000	160	224,000	150	202,000	130				
231	4600	3.65	276,000	210	268,000	200	256,000	190	244,000	180	228,000	160	168,000	120		
241	4800	3.98	292,000	240	282,000	230	274,000	220	262,000	210	248,000	195	206,000	160		
251	5000	4.31	306,000	280	298,000	270	290,000	260	280,000	250	270,000	230	236,000	195	174,000	150
264	5250	4.76	324,000	320	316,000	320	310,000	310	302,000	300	292,000	280	266,000	250	224,000	210
276	5500	5.22	340,000	370	334,000	370	328,000	360	320,000	350	312,000	340	290,000	300	262,000	260
289	5750	5.71	358,000	430	352,000	420	348,000	420	340,000	410	334,000	390	316,000	370	292,000	330
302	6000	6.21	376,000	490	370,000	480	366,000	480	360,000	470	352,000	460	338,000	430	318,000	390
314	6250	6.74	392,000	550	388,000	550	384,000	540	378,000	540	372,000	520	358,000	500	340,000	460
327	6500	7.29			404,000	620	400,000	600	396,000	610	390,000	600	378,000	570	362,000	540
339	6750	7.86			422,000	700	418,000	690	414,000	680	408,000	670	398,000	650	384,000	620
352	7000	8.45			440,000	780	436,000	770	432,000	770	428,000	760	416,000	730	404,000	710
377	7500	9.71					470,000	960	466,000	950	462,000	940	454,000	930	444,000	900
402	8000	11.04							500,000	1160	496,000	1150	490,000	1110	482,000	1110
427	8500	12.48							536,000	1400	532,000	1390	526,000	1380	516,000	1360
452	9000	14.00									566,000	1660	560,000	1650	554,000	1620
478	9500	15.58											596,000	1940	588,000	1920
503	10000	17.27											628,000	2280	624,000	2250

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
276	5500	5.22	212,000	220												
289	5750	5.71	256,000	280	196,000	220										
302	6000	6.21	290,000	350	248,000	300										
314	6250	6.74	320,000	420	288,000	380										
327	6500	7.29	344,000	500	320,000	450	236,000	330								
339	6750	7.86	368,000	580	348,000	540	286,000	440								
352	7000	8.45	390,000	670	374,000	630	324,000	530	224,000	370						
377	7500	9.71	432,000	870	420,000	830	384,000	740	330,000	600						
402	8000	11.04	472,000	1080	460,000	1050	432,000	970	396,000	850	340,000	730				
427	8500	12.48	510,000	1330	500,000	1300	478,000	1220	450,000	1120	410,000	990	354,000	860		
452	9000	14.00	544,000	1600	538,000	1570	518,000	1500	494,000	1410	468,000	1310	428,000	1160	374,000	1020
478	9500	15.58	582,000	1900	576,000	1880	560,000	1810	538,000	1720	516,000	1620	486,000	1490	450,000	1360
503	10000	17.27	616,000	2240	612,000	2220	596,000	2160	580,000	2080	560,000	1980	538,000	1870	508,000	1730

Double Inlet

Size "R" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .438 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
46	1010	0.176	39,600	1.36												
55	1200	0.249	75,800	3.7												
64	1400	0.338	97,600	6.7												
73	1600	0.441	115,000	10.5	94,000	8.0										
82	1800	0.559	134,000	16	119,000	13.5	81,200	9.2								
91	2000	0.690	151,000	22	140,000	20	121,000	16								
100	2200	0.835	169,000	29	159,000	28	146,000	25	123,000	20						
109	2400	0.994			178,000	37	167,000	34	152,000	30	123,000	24				
118	2600	1.17			197,000	48	186,000	45	175,000	41	159,000	36	132,000	30		
127	2800	1.35			212,000	60	204,000	58	196,000	54	184,000	50	167,000	44	140,000	37
136	3000	1.55			230,000	74	222,000	72	214,000	70	206,000	66	193,000	60	177,000	54
145	3200	1.77			246,000	90	240,000	90	234,000	86	226,000	82	216,000	78	204,000	72
155	3400	2.00					256,000	110	252,000	105	244,000	100	236,000	98	228,000	92
164	3600	2.24					274,000	130	268,000	130	264,000	125	256,000	120	248,000	110
173	3800	2.49					290,000	150	286,000	150	280,000	150	274,000	145	268,000	140
182	4000	2.76							304,000	175	298,000	170	294,000	170	288,000	165
191	4200	3.04							320,000	200	316,000	200	312,000	200	306,000	195
200	4400	3.34							338,000	240	334,000	230	328,000	230	324,000	230
209	4600	3.65									350,000	270	346,000	260	342,000	260
218	4800	3.98									366,000	310	362,000	300	360,000	300
228	5000	4.31									384,000	350	380,000	340	376,000	340
239	5250	4.76											400,000	400	398,000	400
250	5500	5.22											422,000	460	418,000	460
262	5750	5.71													440,000	530

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
136	3000	1.55	152,000	46												
145	3200	1.77	188,000	64	127,000	44										
155	3400	2.00	216,000	86	180,800	70										
164	3600	2.24	240,000	110	212,000	92	168,000	74								
173	3800	2.49	260,000	130	240,000	120	210,000	100	155,000	76						
182	4000	2.76	280,000	160	264,000	150	244,000	130	208,000	110						
191	4200	3.04	300,000	190	286,000	175	270,000	165	242,000	145	204,000	120				
200	4400	3.34	320,000	220	308,000	210	292,000	105	272,000	180	246,000	160				
209	4600	3.65	338,000	260	326,000	250	314,000	230	298,000	220	278,000	195	204,000	145		
218	4800	3.98	356,000	300	346,000	280	334,000	270	320,000	260	304,000	240	252,000	190		
228	5000	4.31	372,000	340	364,000	330	354,000	320	342,000	300	328,000	280	288,000	240	212,000	180
239	5250	4.76	394,000	390	386,000	390	378,000	370	368,000	360	356,000	340	324,000	300	274,000	250
250	5500	5.22	416,000	450	408,000	450	400,000	440	392,000	410	382,000	410	354,000	370	318,000	320
262	5750	5.71	436,000	520	430,000	520	424,000	510	416,000	490	406,000	480	386,000	450	356,000	400
272	6000	6.21	458,000	590	452,000	590	446,000	580	438,000	570	430,000	560	412,000	520	388,000	480
284	6250	6.74	478,000	680	474,000	670	468,000	660	460,000	650	454,000	640	436,000	610	416,000	560
296	6500	7.29			494,000	760	488,000	750	482,000	740	476,000	730	460,000	690	412,000	660
307	6750	7.86			516,000	850	510,000	840	504,000	830	498,000	820	482,000	790	468,000	760
318	7000	8.45			536,000	950	532,000	910	526,000	930	522,000	920	508,000	890	492,000	860
341	7500	9.71					572,000	1170	568,000	1160	564,000	1150	554,000	1130	540,000	1100
364	8000	11.04							612,000	1420	606,000	1400	598,000	1390	588,000	1360
386	8500	12.48							652,000	1700	648,000	1690	640,000	1680	630,000	1650
409	9000	14.00									690,000	2020	684,000	2000	676,000	1980
432	9500	15.58											726,000	2380	718,000	2340
455	10000	17.27											766,000	2780	760,000	2740

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
250	5500	5.22	258,000	260												
262	5750	5.71	312,000	340	238,000	270										
272	6000	6.21	354,000	430	304,000	370										
284	6250	6.74	388,000	520	352,000	460										
296	6500	7.29	420,000	610	390,000	550	286,000	410								
307	6750	7.86	448,000	710	424,000	660	348,000	530								
318	7000	8.45	476,000	820	456,000	770	394,000	640	274,000	460						
341	7500	9.71	526,000	1060	512,000	1010	468,000	900	402,000	730						
364	8000	11.04	574,000	1320	560,000	1280	528,000	1180	484,000	1040	414,000	890				
386	8500	12.48	620,000	1620	610,000	1580	582,000	1480	548,000	1370	500,000	1210	432,000	1050		
409	9000	14.00	664,000	1950	656,000	1910	632,000	1830	604,000	1710	572,000	1590	522,000	1410	456,000	1240
432	9500	15.58	710,000	2320	702,000	2300	682,000	2220	656,000	2100	630,000	1980	594,000	1820	548,000	1650
455	10000	17.27	752,000	2720	740,000	2700	728,000	2640	706,000	2520	684,000	2400	656,000	2280	620,000	2120

Double Inlet

Size "S" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
42	1010	0.176	47,400	1.65												
50	1200	0.249	91,000	4.5												
58	1400	0.338	117,000	8.1												
66	1600	0.411	138,000	13	113,000	9.7										
75	1800	0.559	161,600	19	143,000	16	101,000	11.0								
83	2000	0.690	180,000	26	168,000	24	115,000	19.5								
91	2200	0.835	202,000	35	191,000	33	175,000	29	147,000	23						
100	2400	0.994			212,000	44	200,000	41	182,000	36	147,000	28				
108	2600	1.17			236,000	58	224,000	51	210,000	50	196,000	43	158,000	36		
116	2800	1.35			254,000	72	244,000	68	234,000	64	220,000	60	200,000	52	168,000	44
125	3000	1.55			274,000	90	266,000	86	258,000	84	246,000	78	232,000	72	212,000	64
133	3200	1.77			294,000	110	288,000	110	280,000	105	270,000	98	258,000	92	244,000	86
141	3400	2.00					308,000	130	302,000	130	294,000	120	284,000	115	274,000	110
149	3600	2.21					330,000	150	322,000	150	316,000	150	308,000	145	298,000	130
158	3800	2.49					348,000	180	344,000	180	336,000	175	330,000	170	320,000	165
166	4000	2.76							364,000	210	358,000	210	352,000	200	344,000	195
174	4200	3.04							384,000	240	378,000	240	372,000	240	366,000	230
183	4400	3.31							404,000	280	400,000	280	394,000	280	398,000	270
191	4600	3.65									420,000	320	414,000	320	410,000	310
199	4800	3.98									438,000	370	434,000	360	430,000	360
208	5000	4.31									460,000	410	456,000	410	452,000	410
218	5250	4.76											480,000	480	476,000	480
228	5500	5.22											506,000	560	502,000	550
239	5750	5.71													526,000	630

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
125	3000	1.55	182,000	51												
133	3200	1.77	226,000	78	152,000	52										
141	3400	2.00	258,000	105	216,000	84										
149	3600	2.21	286,000	130	256,000	110	202,000	88								
158	3800	2.49	312,000	160	288,000	145	252,000	120	186,000	92						
166	4000	2.76	336,000	190	316,000	175	292,000	155	248,000	130						
174	4200	3.04	360,000	230	344,000	210	324,000	195	290,000	170	246,000	145				
183	4400	3.31	384,000	270	368,000	250	350,000	240	326,000	210	294,000	190				
191	4600	3.65	404,000	310	392,000	300	376,000	280	358,000	260	332,000	240	246,000	175		
199	4800	3.98	426,000	360	414,000	340	400,000	330	384,000	310	364,000	290	302,000	230		
208	5000	4.31	446,000	410	436,000	390	424,000	380	410,000	360	394,000	340	344,000	290	254,000	210
218	5250	4.76	472,000	470	464,000	470	452,000	450	440,000	430	426,000	410	388,000	360	328,000	300
228	5500	5.22	498,000	540	490,000	510	480,000	530	468,000	510	456,000	490	424,000	440	382,000	390
239	5750	5.71	522,000	630	516,000	620	508,000	610	498,000	590	486,000	580	462,000	530	426,000	480
249	6000	6.21	548,000	710	542,000	710	534,000	700	526,000	680	516,000	670	492,000	630	464,000	580
260	6250	6.74	574,000	810	568,000	800	560,000	790	552,000	780	544,000	760	524,000	730	498,000	680
270	6500	7.29			592,000	910	586,000	890	578,000	890	572,000	870	552,000	830	530,000	790
280	6750	7.86			618,000	1020	612,000	1010	604,000	1000	596,000	990	580,000	950	560,000	910
291	7000	8.45			642,000	1140	636,000	1130	630,000	1120	624,000	1110	608,000	1070	590,000	1030
312	7500	9.71					686,000	1400	682,000	1390	676,000	1370	664,000	1360	648,000	1310
332	8000	11.04							732,000	1700	726,000	1680	716,000	1660	704,000	1620
353	8500	12.48							782,000	2040	778,000	2040	758,000	2020	756,000	1980
374	9000	14.00									826,000	2420	810,000	2400	810,000	2380
394	9500	15.58											870,000	2840	860,000	2800
415	10000	17.27											912,000	3320	912,000	3280

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
228	5500	5.22	308,000	310												
239	5750	5.71	374,000	410	286,000	320										
249	6000	6.21	424,000	510	364,000	440										
260	6250	6.74	466,000	620	422,000	550										
270	6500	7.29	504,000	740	468,000	660	344,000	490								
280	6750	7.86	538,000	850	508,000	790	416,000	640								
291	7000	8.45	570,000	980	546,000	920	474,000	770	328,000	550						
312	7500	9.71	630,000	1270	612,000	1210	562,000	1080	482,000	880						
332	8000	11.04	688,000	1580	672,000	1530	632,000	1440	580,000	1250	496,000	1070				
353	8500	12.48	744,000	1940	732,000	1900	698,000	1780	656,000	1640	600,000	1460	518,000	1260		
374	9000	14.00	796,000	2340	788,000	2300	758,000	2200	722,000	2080	684,000	1910	626,000	1690	548,000	1490
394	9500	15.58	850,000	2780	840,000	2740	816,000	2640	786,000	2520	736,000	2380	712,000	2180	656,000	1980
415	10000	17.27	902,000	3260	896,000	3210	872,000	3160	846,000	3040	820,000	2900	786,000	2740	744,000	2540

Double Inlet **Size "T" Supervane Fan—Design 1** **Double Width**

When Discharging Air at 65° F and Destiny .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
39	1010	0.176	56,000	2.0												
46	1200	0.249	107,000	5.3												
53	1400	0.338	138,000	9.6												
61	1600	0.441	163,000	15	133,000	12										
69	1800	0.559	190,000	22	169,000	19	119,000	13								
76	2000	0.690	214,000	31	199,000	28	171,000	23								
84	2200	0.835	240,000	42	226,000	39	206,000	35	174,000	28						
92	2400	0.994			252,000	52	236,000	48	216,000	42	174,000	34				
99	2600	1.17			278,000	68	264,000	64	248,000	58	224,000	52	187,000	42		
107	2800	1.35			300,000	84	288,000	82	276,000	76	260,000	70	236,000	62	199,000	52
115	3000	1.55			324,000	105	314,000	105	304,000	98	290,000	92	274,000	84	250,000	76
122	3200	1.77			348,000	130	340,000	130	330,000	120	320,000	115	306,000	110	288,000	100
130	3400	2.00					364,000	150	356,000	150	346,000	145	334,000	135	322,000	130
138	3600	2.24					388,000	180	380,000	180	372,000	170	362,000	170	352,000	160
145	3800	2.49					412,000	210	406,000	210	398,000	210	388,000	200	380,000	195
153	4000	2.76							430,000	250	422,000	240	416,000	240	406,000	230
160	4200	3.04							454,000	290	448,000	290	440,000	280	434,000	280
168	4400	3.34							478,000	340	472,000	330	466,000	330	458,000	320
176	4600	3.65									496,000	380	490,000	370	484,000	370
183	4800	3.98									518,000	430	514,000	430	508,000	420
191	5000	4.31									542,000	490	530,000	490	532,000	480
201	5250	4.76											568,000	570	576,000	560
210	5500	5.22											598,000	660	592,000	650
220	5750	5.71													622,000	740

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
115	3000	1.55	216,000	61												
122	3200	1.77	268,000	92	180,000	62										
130	3400	2.00	306,000	120	254,000	98										
138	3600	2.24	340,000	150	302,000	130	238,000	105								
145	3800	2.49	368,000	190	340,000	170	298,000	145	220,000	110						
153	4000	2.76	398,000	230	374,000	210	346,000	185	294,000	155						
160	4200	3.04	424,000	270	406,000	250	384,000	230	344,000	200	290,000	170				
168	4400	3.34	452,000	310	434,000	300	414,000	280	386,000	250	348,000	220				
176	4600	3.65	478,000	370	462,000	350	444,000	330	422,000	310	392,000	280	290,000	210		
183	4800	3.98	504,000	420	488,000	400	472,000	390	454,000	360	430,000	340	356,000	270		
191	5000	4.31	528,000	480	516,000	470	500,000	450	484,000	430	464,000	400	408,000	340	300,000	250
201	5250	4.76	558,000	560	548,000	550	534,000	470	520,000	510	504,000	490	460,000	430	388,000	360
210	5500	5.22	588,000	640	578,000	630	568,000	620	554,000	600	540,000	580	502,000	520	452,000	460
220	5750	5.71	618,000	740	610,000	730	600,000	720	588,000	700	576,000	680	546,000	630	504,000	560
229	6000	6.21	648,000	840	640,000	830	632,000	830	620,000	810	610,000	790	582,000	740	548,000	680
239	6250	6.74	678,000	960	670,000	950	662,000	930	652,000	920	642,000	900	618,000	860	588,000	800
248	6500	7.29			700,000	1070	692,000	1060	684,000	1050	674,000	1030	652,000	980	626,000	930
258	6750	7.86			730,000	1200	722,000	1190	714,000	1180	706,000	1160	686,000	1120	662,000	1070
268	7000	8.45			758,000	1340	752,000	1330	744,000	1320	738,000	1310	718,000	1270	698,000	1220
286	7500	9.71					810,000	1650	804,000	1640	798,000	1620	784,000	1600	766,000	1550
306	8000	11.04							866,000	2020	858,000	1990	848,000	1960	830,000	1920
325	8500	12.48							924,000	2420	920,000	2400	908,000	2380	892,000	2340
344	9000	14.00									976,000	2860	968,000	2840	956,000	2800
363	9500	15.58											1,028,000	3360	1,016,000	3320
382	10000	17.27											1,084,000	3920	1,078,000	3880

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
210	5500	5.22	364,000	370												
220	5750	5.71	442,000	490	338,000	380										
229	6000	6.21	500,000	600	430,000	520										
239	6250	6.74	550,000	730	498,000	650										
248	6500	7.29	596,000	870	554,000	780	406,000	580								
258	6750	7.86	636,000	1010	602,000	940	492,000	750								
268	7000	8.45	674,000	1160	646,000	1090	560,000	910	388,000	640						
286	7500	9.71	714,000	1500	724,000	1430	664,000	1270	570,000	1040						
306	8000	11.04	814,000	1870	796,000	1810	748,000	1670	684,000	1470	588,000	1260				
325	8500	12.48	880,000	2300	864,000	2240	824,000	2100	776,000	1940	710,000	1720	612,000	1480		
344	9000	14.00	940,000	2760	930,000	2700	896,000	2600	854,000	2420	810,000	2260	740,000	2000	646,000	1760
363	9500	15.58	1,006,000	3280	994,000	3240	966,000	3120	930,000	2980	892,000	2800	840,000	2580	776,000	2340
382	10000	17.27	1,066,000	3860	1,058,000	3820	1,030,000	3720	1,000,000	3580	968,000	3420	930,000	3220	878,000	3000

Double Inlet

Size "U" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
36	1010	0.176	65,600	2.3												
42	1200	0.249	126,000	6.2												
50	1400	0.338	162,000	11.0												
57	1600	0.441	191,000	16.5	156,000	13										
64	1800	0.559	222,000	26	198,000	22	140,000	15								
71	2000	0.690	250,000	36	232,000	33	200,000	27								
78	2200	0.835	280,000	49	264,000	46	242,000	41	201,000	32						
85	2400	0.994			291,000	62	276,000	56	252,000	50	204,000	39				
92	2600	1.17			326,000	78	310,000	76	290,000	68	264,000	60	218,000	50		
99	2800	1.35			352,000	100	338,000	96	324,000	90	301,000	82	278,000	72	232,000	62
106	3000	1.55			380,000	125	368,000	120	356,000	115	340,000	110	320,000	100	294,000	88
113	3200	1.77			406,000	150	398,000	150	386,000	145	374,000	135	358,000	130	338,000	120
120	3400	2.00					426,000	180	418,000	175	406,000	170	392,000	160	378,000	150
128	3600	2.24					456,000	210	446,000	210	436,000	200	424,000	195	412,000	190
135	3800	2.49					482,000	250	474,000	250	464,000	250	456,000	240	444,000	230
142	4000	2.76							504,000	290	494,000	290	486,000	280	476,000	270
149	4200	3.04							532,000	340	524,000	330	516,000	330	508,000	320
156	4400	3.31							560,000	390	552,000	390	546,000	380	538,000	380
163	4600	3.65									580,000	450	574,000	410	566,000	440
170	4800	3.98									608,000	510	602,000	500	596,000	500
177	5000	4.31									636,000	570	630,000	570	624,000	570
186	5250	4.76											664,000	670	660,000	660
195	5500	5.22											700,000	770	694,000	760
201	5750	5.71													730,000	870

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1 1/4" Water .723 ozs. per sq. inch		Static Pressure 1 1/2" Water .878 ozs. per sq. inch		Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
106	3000	1.55	252,000	76												
113	3200	1.77	312,000	110	210,000	74										
120	3400	2.00	358,000	140	298,000	115										
128	3600	2.24	396,000	180	354,000	150	280,000	120								
135	3800	2.49	432,000	220	400,000	195	350,000	170	258,000	125						
142	4000	2.76	464,000	270	438,000	240	404,000	220	344,000	185						
149	4200	3.04	498,000	310	474,000	290	448,000	270	402,000	240	340,000	200				
156	4400	3.31	530,000	370	508,000	350	484,000	330	452,000	300	408,000	260				
163	4600	3.65	560,000	430	542,000	410	520,000	390	494,000	360	460,000	330	310,000	240		
170	4800	3.98	590,000	490	572,000	470	552,000	450	532,000	430	504,000	400	418,000	320		
177	5000	4.31	618,000	560	604,000	550	586,000	520	568,000	500	544,000	470	478,000	400	352,000	300
186	5250	4.76	654,000	650	640,000	650	626,000	620	610,000	600	590,000	570	538,000	500	454,000	420
195	5500	5.22	688,000	750	678,000	740	664,000	730	650,000	700	632,000	680	588,000	610	528,000	530
204	5750	5.71	724,000	870	714,000	860	702,000	840	688,000	820	674,000	800	638,000	740	590,000	660
213	6000	6.21	760,000	980	750,000	980	738,000	970	728,000	940	714,000	920	682,000	870	642,000	800
222	6250	6.74	794,000	1120	786,000	1110	774,000	1090	764,000	1080	752,000	1060	724,000	1010	690,000	910
230	6500	7.29			820,000	1260	810,000	1240	800,000	1230	790,000	1210	764,000	1150	734,000	1090
239	6750	7.86			854,000	1410	846,000	1390	836,000	1380	826,000	1360	804,000	1320	776,000	1250
248	7000	8.45			888,000	1570	880,000	1560	872,000	1550	864,000	1530	840,000	1480	818,000	1430
266	7500	9.71					950,000	1940	942,000	1920	936,000	1900	920,000	1880	898,000	1820
283	8000	11.04							1,012,000	2360	1,006,000	2320	992,000	2300	974,000	2240
301	8500	12.48							1,084,000	2820	1,078,000	2810	1,062,000	2780	1,046,000	2740
319	9000	14.00									1,144,000	3340	1,132,000	3320	1,120,000	3280
336	9500	15.58											1,202,000	3940	1,190,000	3880
354	10000	17.27											1,270,000	4600	1,260,000	4560

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
195	5500	5.22	228,000	440												
204	5750	5.71	518,000	570	396,000	440										
213	6000	6.21	586,000	710	504,000	610										
222	6250	6.74	644,000	860	584,000	760										
230	6500	7.29	698,000	1020	648,000	920	476,000	680								
239	6750	7.86	744,000	1180	704,000	1100	576,000	880								
248	7000	8.45	790,000	1360	756,000	1280	656,000	1070	454,000	760						
266	7500	9.71	872,000	1750	848,000	1680	778,000	1490	668,000	1210						
283	8000	11.04	954,000	2200	930,000	2120	876,000	1950	800,000	1730	688,000	1470				
301	8500	12.48	1,030,000	2680	1,012,000	2620	966,000	2460	910,000	2280	830,000	2020	716,000	1740		
319	9000	14.00	1,102,000	3240	1,090,000	3180	1,050,000	3040	1,000,000	2840	948,000	2640	866,000	2340	758,000	2060
336	9500	15.58	1,178,000	3860	1,164,000	3800	1,130,000	3660	1,090,000	3480	1,046,000	3280	984,000	3020	910,000	2740
354	10000	17.27	1,250,000	4520	1,238,000	4480	1,208,000	4360	1,172,000	4200	1,134,000	4000	1,090,000	3780	1,030,000	3500

Double Inlet

Size "V" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
33	1010	0.176	75,400	2.6												
39	1200	0.249	115,000	7.1												
46	1400	0.338	186,000	13												
53	1600	0.441	220,000	20	180,000	16										
59	1800	0.559	256,000	30	228,000	26	161,000	18								
66	2000	0.690	288,000	42	268,000	38	230,000	31								
72	2200	0.835	322,000	56	304,000	54	280,000	47	234,000	37						
79	2400	0.994			340,000	70	318,000	66	290,000	54	234,000	45				
86	2600	1.17			376,000	90	356,000	86	334,000	80	302,000	70	252,000	58		
92	2800	1.35			406,000	115	388,000	110	374,000	105	350,000	96	320,000	84	268,000	70
99	3000	1.55			438,000	145	424,000	140	410,000	130	392,000	125	368,000	115	338,000	100
105	3200	1.77			468,000	170	458,000	170	446,000	165	430,000	155	412,000	150	388,000	135
112	3400	2.00					490,000	210	480,000	200	468,000	195	452,000	190	436,000	175
118	3600	2.24					524,000	240	512,000	240	502,000	230	490,000	230	474,000	220
125	3800	2.49					556,000	290	546,000	290	536,000	280	524,000	270	512,000	260
132	4000	2.76							578,000	310	570,000	330	560,000	320	548,000	320
138	4200	3.04							612,000	390	604,000	390	594,000	380	584,000	370
145	4400	3.34							644,000	450	636,000	450	628,000	410	618,000	430
151	4600	3.65									668,000	510	660,000	500	652,000	500
158	4800	3.98									700,000	580	692,000	580	686,000	570
164	5000	4.31									732,000	660	726,000	660	718,000	650
173	5250	4.76											764,000	770	758,000	760
181	5500	5.22											804,000	880	800,000	870
189	5750	5.71													840,000	1000

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
99	3000	1.55	290,000	88												
105	3200	1.77	360,000	125	212,000	84										
112	3400	2.00	412,000	165	314,000	130										
118	3600	2.24	456,000	210	406,000	175	322,000	140								
125	3800	2.49	496,000	250	460,000	230	402,000	195	296,000	145						
132	4000	2.76	536,000	310	504,000	280	466,000	250	396,000	210						
138	4200	3.04	572,000	360	546,000	340	516,000	310	464,000	270	392,000	230				
145	4400	3.34	610,000	420	586,000	400	558,000	380	520,000	310	468,000	300				
151	4600	3.65	644,000	490	624,000	470	598,000	450	570,000	420	530,000	380	390,000	280		
158	4800	3.98	680,000	570	658,000	540	636,000	520	612,000	490	580,000	460	430,000	370		
164	5000	4.31	712,000	650	696,000	630	676,000	600	652,000	570	628,000	540	550,000	460	404,000	340
173	5250	4.76	752,000	750	738,000	750	720,000	710	702,000	690	680,000	660	620,000	580	522,000	480
181	5500	5.22	792,000	870	780,000	860	766,000	840	748,000	810	728,000	780	676,000	710	608,000	610
189	5750	5.71	832,000	1000	822,000	980	810,000	970	792,000	940	776,000	920	734,000	850	678,000	760
197	6000	6.21	874,000	1130	862,000	1130	850,000	1110	838,000	1090	820,000	1060	784,000	1000	738,000	920
206	6250	6.74	914,000	1290	904,000	1280	890,000	1260	880,000	1240	866,000	1220	832,000	1160	792,000	1080
214	6500	7.29			942,000	1450	934,000	1420	920,000	1410	910,000	1390	878,000	1320	844,000	1260
222	6750	7.86			984,000	1620	974,000	1600	962,000	1590	950,000	1570	924,000	1510	892,000	1410
230	7000	8.45			1,020,000	1810	1,010,000	1800	1,010,000	1780	994,000	1760	970,000	1710	940,000	1650
247	7500	9.71					1,090,000	2240	1,090,000	2220	1,080,000	2180	1,060,000	2160	1,030,000	2100
263	8000	11.04							1,170,000	2720	1,160,000	2680	1,140,000	2640	1,120,000	2580
280	8500	12.48							1,248,000	3240	1,240,000	3240	1,220,000	3220	1,200,000	3160
296	9000	14.00									1,320,000	3860	1,300,000	3840	1,290,000	3780
312	9500	15.58											1,380,000	4520	1,370,000	4480
329	10000	17.27											1,460,000	5300	1,450,000	5240

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
181	5500	5.22	492,000	500												
189	5750	5.71	596,000	660	456,000	510										
197	6000	6.21	674,000	820	580,000	700										
206	6250	6.74	742,000	980	672,000	870										
214	6500	7.29	802,000	1170	716,000	1060	548,000	780								
222	6750	7.86	858,000	1360	810,000	1260	664,000	1010								
230	7000	8.45	908,000	1570	870,000	1470	754,000	1230	524,000	870						
247	7500	9.71	1,000,000	2020	974,000	1930	894,000	1720	768,000	1400						
263	8000	11.04	1,100,000	2520	1,070,000	2440	1,010,000	2260	922,000	1990	792,000	1700				
280	8500	12.48	1,190,000	3080	1,160,000	3020	1,110,000	2840	1,050,000	2620	956,000	2320	824,000	2000		
296	9000	14.00	1,270,000	3720	1,250,000	3640	1,210,000	3500	1,150,000	3280	1,090,000	3040	996,000	2700	872,000	2380
312	9500	15.58	1,360,000	4440	1,340,000	4380	1,300,000	4220	1,250,000	4020	1,200,000	3780	1,130,000	3480	1,050,000	3160
329	10000	17.27	1,440,000	5200	1,430,000	5160	1,390,000	5020	1,350,000	4820	1,310,000	4600	1,250,000	4360	1,180,000	4040

Double Inlet **Size "W" Supervane Fan—Design 1** **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
30	1010	0.176	91,800	3.2												
36	1200	0.219	176,000	8.7												
42	1400	0.338	226,000	15.5												
48	1600	0.441	268,000	25	218,000	19										
54	1800	0.559	312,000	37	278,000	31	196,000	21								
60	2000	0.690	350,000	50	326,000	46	280,000	38								
66	2200	0.835	392,000	68	370,000	64	340,000	58	286,000	46						
72	2400	0.994			412,000	86	398,000	80	352,000	70	286,000	56				
78	2600	1.17			456,000	110	434,000	105	406,000	96	368,000	84	306,000	70		
84	2800	1.35			494,000	140	472,000	130	454,000	130	428,000	115	388,000	105	326,000	86
90	3000	1.55			532,000	170	516,000	170	500,000	160	478,000	150	418,000	140	412,000	125
96	3200	1.77			570,000	210	558,000	210	542,000	200	524,000	190	502,000	180	474,000	170
102	3400	2.00					598,000	250	584,000	240	568,000	240	548,000	230	530,000	210
107	3600	2.24					638,000	300	624,000	290	612,000	290	596,000	280	576,000	260
113	3800	2.49					676,000	350	664,000	350	652,000	340	638,000	330	622,000	320
119	4000	2.76							704,000	410	694,000	400	680,000	390	668,000	380
125	4200	3.04							644,000	470	734,000	470	722,000	460	712,000	450
131	4400	3.34							781,000	550	774,000	540	764,000	540	752,000	530
137	4600	3.65									812,000	630	802,000	610	794,000	610
143	4800	3.98									850,000	710	842,000	700	836,000	700
149	5000	4.31									890,000	800	881,000	800	874,000	790
157	5250	4.76											930,000	930	924,000	930
164	5500	5.22											980,000	1080	972,000	1060
172	5750	5.71													1,022,000	1220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
90	3000	1.55	352,000	110												
96	3200	1.77	438,000	150	296,000	105										
102	3400	2.00	500,000	200	418,000	160										
107	3600	2.24	556,000	250	494,000	210	392,000	170								
113	3800	2.49	604,000	270	560,000	280	490,000	240	360,000	175						
119	4000	2.76	652,000	370	614,000	340	568,000	310	480,000	260						
125	4200	3.04	696,000	440	666,000	410	628,000	380	564,000	330	476,000	280				
131	4400	3.34	742,000	520	714,000	490	680,000	460	632,000	420	570,000	370				
137	4600	3.65	784,000	600	758,000	570	728,000	540	694,000	510	644,000	460	476,000	340		
143	4800	3.98	828,000	690	800,000	660	774,000	630	746,000	600	706,000	560	584,000	450		
149	5000	4.31	866,000	790	846,000	760	822,000	730	794,000	700	764,000	660	668,000	560	492,000	420
157	5250	4.76	916,000	920	898,000	910	876,000	870	854,000	840	828,000	800	754,000	700	636,000	590
164	5500	5.22	964,000	1060	948,000	1040	932,000	1020	910,000	990	886,000	950	824,000	860	740,000	750
172	5750	5.71	1,014,000	1220	1,000,000	1200	984,000	1180	964,000	1150	944,000	1120	894,000	1040	826,000	920
179	6000	6.21	1,062,000	1380	1,050,000	1370	1,036,000	1350	1,020,000	1320	1,000,000	1290	956,000	1210	900,000	1120
187	6250	6.74	1,112,000	1570	1,100,000	1560	1,084,000	1530	1,070,000	1520	1,050,000	1480	1,010,000	1410	966,000	1310
194	6500	7.29			1,148,000	1760	1,136,000	1730	1,120,000	1720	1,110,000	1690	1,070,000	1610	1,030,000	1530
202	6750	7.86			1,196,000	1980	1,194,000	1950	1,170,000	1930	1,160,000	1910	1,130,000	1840	1,090,000	1760
209	7000	8.45			1,244,000	2200	1,236,000	2180	1,220,000	2180	1,210,000	2140	1,180,000	2080	1,140,000	2000
224	7500	9.71					1,330,000	2720	1,320,000	2700	1,310,000	2660	1,290,000	2620	1,260,000	2540
239	8000	11.04							1,420,000	3300	1,410,000	3260	1,390,000	3220	1,370,000	3160
254	8500	12.48							1,518,000	3960	1,510,000	3940	1,490,000	3900	1,470,000	3840
269	9000	14.00									1,600,000	4680	1,590,000	4660	1,570,000	4600
284	9500	15.58											1,680,000	5520	1,660,000	5440
299	10000	17.27											1,780,000	6440	1,770,000	6380

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
164	5500	5.22	598,000	610												
172	5750	5.71	726,000	800	551,000	620										
179	6000	6.21	822,000	990	706,000	850										
187	6250	6.74	904,000	1200	818,000	1060										
194	6500	7.29	978,000	1430	908,000	1290	666,000	950								
202	6750	7.86	1,040,000	1660	988,000	1540	808,000	1230								
209	7000	8.45	1,110,000	1910	1,060,000	1790	918,000	1500	636,000	1060						
224	7500	9.71	1,220,000	2460	1,190,000	2360	1,090,000	2100	936,000	1700						
239	8000	11.04	1,340,000	3060	1,300,000	2980	1,230,000	2740	1,120,000	2420	962,000	2060				
254	8500	12.48	1,440,000	3760	1,420,000	3680	1,350,000	3460	1,270,000	3180	1,160,000	2820	1,000,000	2440		
269	9000	14.00	1,540,000	4540	1,530,000	4440	1,470,000	4260	1,400,000	3980	1,330,000	3700	1,210,000	3280	1,060,000	2900
284	9500	15.58	1,650,000	5400	1,630,000	5320	1,580,000	5140	1,530,000	4880	1,470,000	4600	1,380,000	4240	1,270,000	3840
299	10000	17.27	1,750,000	6340	1,740,000	6280	1,690,000	6120	1,640,000	5880	1,500,000	5600	1,530,000	5300	1,440,000	4920

Double Inlet

Size "X" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. — Static Pressure ⅛" Water .0722 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ¼" Water .145 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ⅜" Water .217 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ½" Water .289 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ⅝" Water .361 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ¾" Water .434 ozs. per sq. inch	H.P.	Volume C.F.M. — Static Pressure ⅞" Water .506 ozs. per sq. inch	H.P.
28	1010	0.176	110,000	3.8												
33	1200	0.249	210,000	10												
38	1400	0.338	272,000	19												
44	1600	0.441	320,000	30	262,000	22										
49	1800	0.559	374,000	44	332,000	38	234,000	26								
55	2000	0.690	418,000	60	390,000	56	336,000	41								
60	2200	0.835	470,000	82	444,000	78	406,000	68	312,000	51						
65	2400	0.991			494,000	105	461,000	96	422,000	84	342,000	66				
71	2600	1.17			546,000	130	518,000	130	486,000	115	440,000	100	366,000	84		
76	2800	1.35			590,000	170	566,000	160	514,000	150	512,000	140	461,000	125	390,000	105
82	3000	1.55			638,000	210	618,000	200	598,000	190	572,000	180	536,000	170	490,000	150
87	3200	1.77			682,000	250	668,000	250	648,000	240	626,000	230	600,000	220	566,000	200
93	3400	2.00					714,000	300	700,000	290	680,000	280	656,000	270	634,000	260
98	3600	2.24					764,000	360	746,000	350	732,000	340	712,000	330	690,000	320
104	3800	2.49					808,000	420	796,000	420	780,000	410	761,000	400	741,000	380
109	4000	2.76							842,000	490	830,000	480	811,000	470	798,000	460
115	4200	3.04							890,000	570	880,000	560	861,000	550	850,000	510
120	4400	3.34							938,000	660	926,000	650	914,000	640	900,000	630
125	4600	3.65									972,000	750	960,000	740	948,000	730
131	4800	3.98									1,020,000	850	1,010,000	840	1,000,000	830
136	5000	4.31									1,060,000	960	1,060,000	960	1,050,000	950
143	5250	4.76											1,110,000	1120	1,100,000	1110
150	5500	5.22											1,170,000	1290	116,0,000	1270
157	5750	5.71													1,220,000	1460

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
82	3000	1.55	422,000	130												
87	3200	1.77	524,000	180	354,000	125										
93	3400	2.00	600,000	240	500,000	190										
98	3600	2.24	664,000	300	592,000	260	468,000	200								
104	3800	2.49	724,000	370	658,000	330	596,000	280	434,000	210						
109	4000	2.76	780,000	410	731,000	410	678,000	870	576,000	310						
115	4200	3.04	834,000	520	796,000	490	752,000	450	674,000	400	570,000	340				
120	4400	3.34	888,000	620	854,000	590	812,000	550	756,000	500	682,000	440				
125	4600	3.65	938,000	720	906,000	690	870,000	650	830,000	600	770,000	550	568,000	410		
131	4800	3.98	990,000	830	958,000	790	928,000	760	890,000	720	844,000	670	700,000	540		
136	5000	4.31	1,036,000	940	1,012,000	910	982,000	880	950,000	840	912,000	790	800,000	670	588,000	500
143	5250	4.76	1,096,000	1100	1,074,000	1090	1,048,000	1040	1,020,000	1000	990,000	960	902,000	840	762,000	700
150	5500	5.22	1,156,000	1270	1,136,000	1250	1,114,000	1220	1,090,000	1180	1,060,000	1140	984,000	1030	886,000	900
157	5750	5.71	1,212,000	1460	1,196,000	1430	1,178,000	1410	1,150,000	1380	1,130,000	1330	1,070,000	1240	988,000	1110
164	6000	6.21	1,272,000	1650	1,256,000	1640	1,238,000	1620	1,220,000	1580	1,200,000	1550	1,140,000	1450	1,080,000	1340
171	6250	6.74	1,330,000	1880	1,316,000	1870	1,298,000	1840	1,280,000	1810	1,260,000	1770	1,210,000	1680	1,160,000	1570
177	6500	7.29			1,372,000	2100	1,360,000	2080	1,340,000	2060	1,320,000	2020	1,280,000	1920	1,230,000	1830
184	6750	7.86			1,432,000	2360	1,418,000	2340	1,400,000	2300	1,380,000	2280	1,350,000	2200	1,300,000	2100
191	7000	8.45			1,490,000	2640	1,476,000	2620	1,460,000	2600	1,450,000	2560	1,410,000	2180	1,370,000	2400
205	7500	9.71					1,592,000	3240	1,580,000	3220	1,570,000	3180	1,540,000	3140	1,500,000	3060
218	8000	11.04							1,700,000	3960	1,680,000	3900	1,660,000	3860	1,630,000	3780
232	8500	12.48							1,816,000	4740	1,800,000	4720	1,780,000	4680	1,750,000	4600
246	9000	14.00									1,920,000	5620	1,900,000	5580	1,880,000	5500
259	9500	15.58											2,020,000	6600	2,000,000	6520
273	10000	17.27											2,140,000	7720	2,120,000	7020

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
150	5500	5.22	716,000	730												
157	5750	5.71	868,000	960	664,000	740										
164	6000	6.21	982,000	1190	844,000	1020										
171	6250	6.74	1,080,000	1440	978,000	1280										
177	6500	7.29	1,170,000	1710	1,090,000	1540	796,000	1140								
184	6750	7.86	1,250,000	1980	1,180,000	1840	966,000	1480								
191	7000	8.45	1,320,000	2280	1,270,000	2140	1,100,000	1790	762,000	1270						
205	7500	9.71	1,460,000	2940	1,420,000	2820	1,300,000	2500	1,120,000	2040						
218	8000	11.04	1,600,000	3680	1,560,000	3560	1,470,000	3280	1,340,000	2900	1,150,000	2480				
232	8500	12.48	1,730,000	4500	1,700,000	4400	1,620,000	4140	1,520,000	3800	1,390,000	3380	1,200,000	2920		
246	9000	14.00	1,850,000	5420	1,830,000	5320	1,760,000	5100	1,680,000	4760	1,590,000	4440	1,450,000	3920	1,270,000	3460
259	9500	15.58	1,970,000	6460	1,950,000	6380	1,890,000	6140	1,830,000	5840	1,750,000	5500	1,650,000	5080	1,520,000	4600
273	10000	17.27	2,100,000	7580	2,080,000	7500	2,020,000	7320	1,960,000	7040	1,900,000	6700	1,830,000	6340	1,720,000	5880

Double Inlet # Size "Y" Supervane Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
25	1010	0.176	120,000	4.5												
30	1200	0.249	216,000	12												
35	1400	0.338	320,000	22												
40	1600	0.441	378,000	35	308,000	26										
45	1800	0.559	440,000	52	392,000	41	276,000	30								
50	2000	0.690	492,000	72	460,000	66	396,000	51								
55	2200	0.835	552,000	96	522,000	90	478,000	80	402,000	64						
60	2400	0.994			582,000	120	546,000	110	498,000	98	402,000	78				
65	2600	1.17			644,000	155	610,000	150	572,000	135	520,000	120	432,000	98		
70	2800	1.35			694,000	195	666,000	190	640,000	175	602,000	165	548,000	145	460,000	120
75	3000	1.55			750,000	240	728,000	240	704,000	230	672,000	210	632,000	195	580,000	175
80	3200	1.77			804,000	300	786,000	290	764,000	280	738,000	270	706,000	250	668,000	230
85	3400	2.00					810,000	350	822,000	340	800,000	330	774,000	320	746,000	300
90	3600	2.21					900,000	420	880,000	420	862,000	400	840,000	390	812,000	370
95	3800	2.49					952,000	500	938,000	490	918,000	480	900,000	470	878,000	450
101	4000	2.76							992,000	580	976,000	570	960,000	560	940,000	510
106	4200	3.01							1,050,000	670	1,030,000	660	1,020,000	650	1,000,000	640
111	4400	3.34							1,100,000	770	1,090,000	770	1,080,000	750	1,060,000	740
116	4600	3.65									1,150,000	880	1,130,000	870	1,120,000	860
121	4800	3.98									1,200,000	1000	1,190,000	990	1,180,000	980
126	5000	4.31									1,250,000	1130	1,250,000	1130	1,230,000	1120
132	5250	4.76											1,310,000	1310	1,300,000	1310
138	5500	5.22											1,380,000	1520	1,370,000	1500
145	5750	5.71													1,440,000	1720

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
75	3000	1.55	498,000	150												
80	3200	1.77	616,000	210	416,000	145										
85	3400	2.00	706,000	280	588,000	230										
90	3600	2.24	784,000	350	696,000	300	552,000	240								
95	3800	2.49	852,000	430	788,000	390	690,000	330	508,000	250						
101	4000	2.76	918,000	520	866,000	480	800,000	430	678,000	360						
106	4200	3.04	982,000	620	938,000	580	886,000	540	794,000	470	670,000	400				
111	4400	3.34	1,050,000	730	1,010,000	690	958,000	640	890,000	590	802,000	520				
116	4600	3.65	1,110,000	850	1,070,000	810	1,030,000	760	976,000	710	908,000	640	670,000	480		
121	4800	3.98	1,170,000	970	1,138,000	930	1,090,000	890	1,050,000	840	994,000	780	822,000	630		
126	5000	4.31	1,220,000	1110	1,190,000	1080	1,160,000	1030	1,120,000	990	1,074,000	930	942,000	790	694,000	590
132	5250	4.76	1,290,000	1290	1,270,000	1280	1,230,000	1220	1,204,000	1180	1,166,000	1150	1,062,000	990	896,000	830
138	5500	5.22	1,360,000	1490	1,340,000	1470	1,310,000	1440	1,282,000	1390	1,248,000	1340	1,160,000	1210	1,042,000	1050
145	5750	5.71	1,430,000	1710	1,410,000	1690	1,390,000	1660	1,360,000	1620	1,330,000	1570	1,260,000	1460	1,162,000	1300
151	6000	6.21	1,500,000	1940	1,480,000	1930	1,460,000	1910	1,436,000	1860	1,430,000	1820	1,346,000	1710	1,268,000	1580
157	6250	6.74	1,570,000	2220	1,550,000	2200	1,530,000	2160	1,510,000	2140	1,484,000	2080	1,430,000	1980	1,360,000	1850
163	6500	7.29			1,620,000	2480	1,600,000	2440	1,580,000	2420	1,560,000	2380	1,506,000	2280	1,450,000	2160
170	6750	7.86			1,690,000	2780	1,670,000	2760	1,650,000	2720	1,632,000	2700	1,586,000	2600	1,532,000	2480
176	7000	8.45			1,750,000	3100	1,740,000	3080	1,722,000	3060	1,706,000	3020	1,662,000	2940	1,612,000	2820
188	7500	9.71					1,874,000	3820	1,862,000	3800	1,848,000	3760	1,814,000	3700	1,770,000	3600
201	8000	11.04							2,000,000	4640	1,982,000	4600	1,958,000	4540	1,922,000	4440
214	8500	12.48							2,140,000	5560	2,120,000	5540	2,100,000	5500	2,060,000	5420
226	9000	14.00									2,260,000	6600	2,240,000	6560	2,220,000	6480
239	9500	15.58											2,380,000	7760	2,360,000	7680
251	10000	17.27											2,500,000	9080	2,480,000	8980

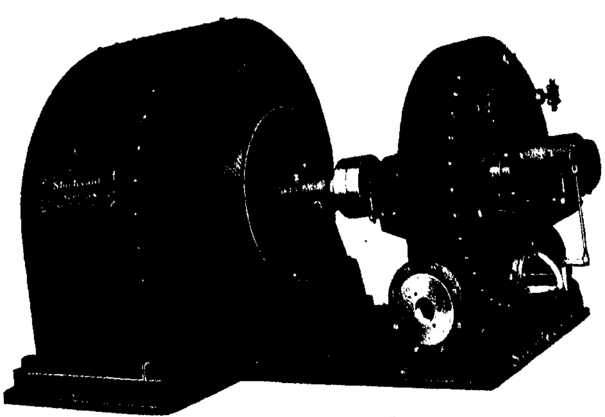
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
138	5500	5.22	844,000	860												
145	5750	5.71	1,020,000	1130	782,000	800										
151	6000	6.21	1,156,000	1418	994,000	1200										
157	6250	6.74	1,271,000	1690	1,152,000	1500										
163	6500	7.29	1,376,000	2020	1,280,000	1810	938,000	1340								
170	6750	7.86	1,470,000	2340	1,390,000	2160	1,138,000	1740								
176	7000	8.45	1,566,000	2700	1,492,000	2520	1,292,000	2120	896,000	1490						
188	7500	9.71	1,722,000	3460	1,672,000	3320	1,534,000	2940	1,318,000	2400						
201	8000	11.04	1,880,000	4320	1,836,000	4200	1,728,000	3860	1,582,000	3400	1,356,000	2920				
214	8500	12.48	2,040,000	5300	1,998,000	5180	1,906,000	4860	1,794,000	4480	1,640,000	3980	1,414,000	3440		
226	9000	14.00	2,180,000	6400	2,160,000	6260	2,080,000	6000	1,974,000	5620	1,870,000	5220	1,710,000	4620	1,496,000	4080
239	9500	15.58	2,320,000	7600	2,300,000	7500	2,240,000	7240	2,160,000	6880	2,060,000	6480	1,944,000	5960	1,794,000	5420
251	10000	17.27	2,460,000	8920	2,440,000	8820	2,380,000	8600	2,320,000	8280	2,240,000	7880	2,160,000	7460	2,040,000	6920

TURBOVANE FANS

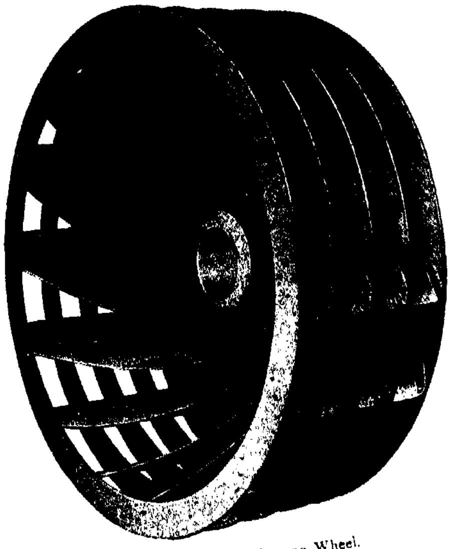
Design 1

Dimensions, Capacities, Horse Powers

Turbovane Fan—Design 1



Design 1 Turbovane Fan,
Direct Coupled to Sturtevant Turbine.



Design 1 Turbovane Wheel.

TURBOVANE FAN—DESIGN 1

SPECIFICATIONS

General. There shall be furnished a No. . . . . , Sturtevant Turbovane Fan. It shall be made (single or double) . . . . inlet, (single or double) . . . . width, (right or left) . . . . hand, ... discharge and have (full or ⅞) . . . . . . housing. The wheel shall be not less than . . . . . " diameter, ... " wide. The outlet shall be . . . . . " by . . . . . ", the diameter of the inlet shall be . . . . . ". The total height of the fan housing shall be . . . . . ", the width in direction of shaft . . . . ", and the length transverse of shaft . . . . ".

The fan shall have a capacity of . . . . cubic feet per minute against a resistance of . . . . . " water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately . . . . . . R.P.M., requiring approximately . . . . . B.H.P.

Housing. The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

Wheel. The blades of the wheel shall be made of refined steel plate. The outer or discharge edge of the blade shall be parallel with the axis of the fan. The inner or intake edge shall be of greatest diameter at the inlet of the wheel and decrease in diameter as the back plate or hub is approached, thus producing a blade of greater depth at the back of the wheel. The blades shall be curved with their convex surface moving forward in rotation, and be of such shape that about two thirds of the depth of the blade from the outer edge in toward the center is formed in the curve of an involute of a circle. The remaining portion shall be formed in the arc of a circle. The blade curvature shall be such as allows the fan to handle the air very efficiently and at a relatively high peripheral speed compared with the pressure produced. The hub shall be made of a solid steel forging riveted to the driving disc and accurately bored and fitted with keyway and set screws. The blades shall be riveted at the end nearest the fan inlet to an annular steel plate ring or side plate, and at the end farthest from the fan inlet to a solid and extra heavy driving disc. The holes through which the blades are riveted to the side plates shall be punched to template as well as the blades themselves to insure the proper position of each blade in the wheel. Equally spaced along the axial length of the outer or discharge edge of the blades shall be placed two or more annular steel plate rings which add strength and rigidity to the wheel. The wheels shall be very carefully balanced.

Bearings. The bearings shall be of the oil tight, dust proof pedestal type, and by means of a spherical seat made self aligning. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom of the box. They shall be of large diameter and extra long to give ample bearing surface. Each bearing shall be fitted with oil throwing collars and oil baffles also with a leather gasket around the shaft and at the outboard end which absolutely prevents oil getting out of the bearing or dust getting into it. A small glass window shall be provided which shows the supply of oil in the bearing. The bearing shall be very rugged and heavily built for high speed duty, and lined with the best quality babbit containing upwards of 85% tin. The bearings shall be carefully bored and scraped to exact size.

Shaft. The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

TURBOVANE FAN—DESIGN 1

EXPLANATION OF SPECIFICATION REQUIREMENTS

Noise. Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously, any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

Provision for Minimizing Losses. The involute curve of the blade is not carried all the way in to the hub. The change of the curve in near the hub to the arc of a circle increases the port area at this point and also produces a blade shape which is more effective in starting the air through the wheel. By virtue of the involute form of the major part of the blade, the length of a normal from any blade to the adjacent blade will be constant at all points, thereby giving equal area to the passages through the blades and greatly lessening the losses due to eddy currents.

Distortion. The heavy annular steel plate rings closely spaced along the outer edge of the blades prevent them from bowing out at high speed and also equalize the discharge of air along the axial length of the blade.

Strength and Rigidity. The back plate, inlet side plate, intermediate steel rings, blades and hub are all made exceptionally heavy and assembled by the unsparing use of heavy rivets. This taken with the general design and proportion of the parts combines to produce a rigid and strong construction.

Wearing Qualities. Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

Turbovane Fan—Design 1

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Turbovane Fan—Design 1

APPROXIMATE WEIGHTS

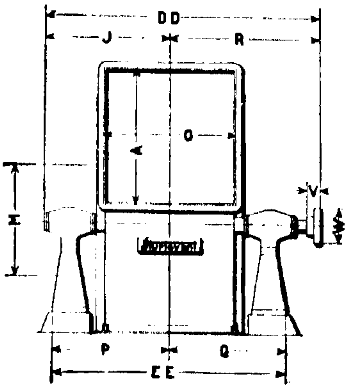
Size	Weight not packed	Size	Weight not packed
40	380	65	1700
45	570	70	2020
50	940	80	2680
55	1160	90	3570
60	1140	100	5160

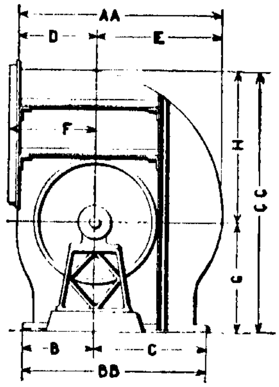
Double Inlet

Turbovane Fan—Design 1

Double Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**





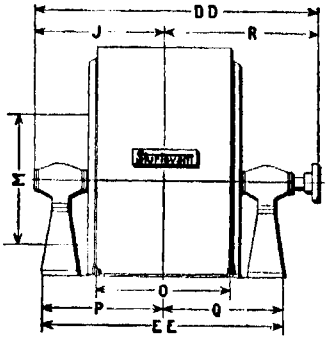
Fan Size	A	B	C	D	E	F	G	H	J	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Dia.	Shaft Diameter	Anchor Bolts Pedestal	Anchor Bolts Fan
40	14⅛	8	11	8⅝	11⅛	10⅛	13	16⅞	17 9/16	13	15⅛	15⅞	4¾	23½	Depending upon size	of Turbine	22⅞	19	29⅞	41 3/16	31¾	11¼	2 3/16	⅝	½
45	17½	9	14	10¾	17⅞	12¼	16	21 1/16	19 5/16	16¼	18¾	18¼	5½	25½			28⅜	23	37 3/16	45 9/16	36½	14⅝	2 7/16	⅝	½
50	20⅞	10½	17½	12⅞	21⅛	14⅜	19	25¼	25 5/16	19½	22⅜	22¼	6	31⅛			34	28	44¼	56 7/16	44½	17½	2 11/16	⅝	½
55	24¼	12½	20½	15	24⅜	16½	22	29 1/16	27 5/16	22¼	26	24½	6½	33⅛			39⅛	33	51 7/16	60 7/16	49	20⅞	3 7/16	⅝	⅝
60	27⅝	14½	23½	17⅛	28⅛	19⅛	25	33⅝	29¾	26	29⅝	27⅝	8¼	35⅞			45¼	38	58⅜	65⅝	55¼	23¼	3 15/16	¾	⅝
65	31	17½	27½	19¼	31⅜	21¼	28	37 11/16	31¾	29¼	33¼	29⅞	8¾	37⅛			50⅞	45	65 13/16	69⅝	59¾	26⅛	4½	¾	⅝
70	31⅞	20½	31½	21⅞	35⅛	23⅞	31	42	33½	32½	36⅞	31⅞	9¼	39⅞			56½	52	73	73⅛	63¾	29	5	¾	⅞
80	41⅛	23½	36½	25⅝	42⅛	27⅞	37	50⅞	40⅛	39	44¼	37⅞	10¼	46¾			67¾	60	87⅜	86⅞	75¾	34⅝	5½	⅞	⅞
90	48	27½	42½	29⅞	49⅛	32⅞	43	58¾	41⅛	45½	51½	42⅝	11¼	50¾			79	70	101¾	94⅞	84¾	40¼	6	⅞	⅞
100	54¾	30½	47½	34⅛	56⅛	36¾	49	67⅛	52 9/16	52	58¾	49½	12½	60			90¼	78	116⅛	112 9/16	99	46	7	1⅛	1
110	61½	34	53	38⅞	63⅛	40⅞	55	75½	56 5/16	58½	66	53⅞	13½	63¾			101½	87	130½	120 3/16	107½	51⅝	7½	1⅛	1
120	68¼	37	59	42⅝	70⅛	45⅛	61	83⅞	60 9/16	65	73¼	58⅜	14¾	67¾			112¾	96	144⅞	128 1/16	116¾	57¼	8	1⅛	1

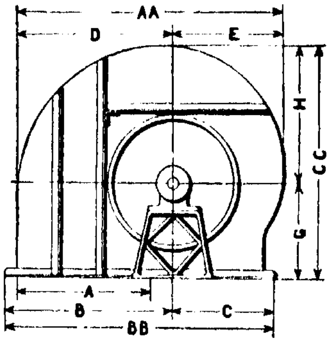
Double Inlet

Turbovane Fan—Design 1

Double Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	G	H	J	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Pedestal	Anchor Bolts Fan
40	13½	18⅞	12	16⅞	11⅛	11	14⅛	17 9/16	13	14½	15⅞	15⅞	23½	Depending upon size	of Turbine	28¾	30⅞	25⅛	41 1/16	31¾	11¾	2 3/16	⅝	½
45	16⅞	23 1/16	14	21 1/16	14 3/16	13¼	17⅜	19 9/16	16¼	18⅛	18¼	18¼	25½			35¼	37 1/16	30⅞	45 1/16	36½	14⅝	2 7/16	⅝	½
50	20¼	27¾	16½	25¼	17	15½	21⅛	25 5/16	19½	21¾	22¼	22¼	31⅛			42¼	44¼	36⅝	56 7/16	44½	17½	2 11/16	⅝	½
55	23⅝	31 15/16	18½	29 7/16	19 13/16	17¾	24⅝	27 5/16	22¼	25⅜	24½	24½	33⅛			49¼	50 7/16	42⅜	60 7/16	49	20⅜	3 7/16	¾	⅝
60	27	36¼	20½	33⅝	22¾	20	28⅛	29¾	26	29	27⅝	27⅝	35⅞			56¼	56⅜	48⅛	65⅝	55¼	23¼	3 11/16	¾	⅝
65	30¼	41 5/16	24½	37 13/16	25 7/16	22¼	31⅞	31¾	29¼	32⅝	29⅞	29¾	37⅞			63¼	65 13/16	53⅞	69⅞	59¾	26⅛	4½	¾	⅝
70	33¼	45½	27½	42	28¼	24¼	35⅛	33½	32½	36¼	31⅞	31⅞	39⅝			70¼	73	59⅜	73⅛	63¼	29	5	¾	⅞
80	40¼	53⅞	31½	50⅜	33⅞	29	42⅛	40⅛	39	43½	37⅞	37⅞	46¾			84¼	85⅜	71⅛	86⅞	75¾	34⅝	5½	⅞	⅞
90	47¼	63¼	36½	58¼	39½	33½	49⅛	44⅛	45½	50¾	42⅝	42⅝	50¼			98¼	99¾	82⅝	94⅞	84¾	40¼	6	⅞	⅞
100	54	71⅝	40½	67⅛	45⅝	38	56⅛	52 9/16	52	58	49½	49½	60			112¼	112⅛	91⅛	112 9/16	99	46	7	1⅛	1
110	60¾	80½	45	75½	50¾	42½	63⅛	56 5/16	58½	65¼	53¾	53¾	63¼			126¼	125½	105⅝	120 5/16	107½	51⅜	7½	1⅛	1
120	67½	88⅞	49	83⅞	56⅛	47	70⅛	60 5/16	65	72½	58⅜	58⅜	67¾			140¼	137⅞	117⅛	128 1/16	116¾	57¼	8	1⅛	1

Double Inlet **Double Width**

No. 40 Turbovane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ½″ Water .285 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
1292	3800	0.749	1,770	0.190	935	0.145										
1361	4000	0.830	1,860	0.225	1,120	0.175										
1430	4200	0.915	2,000	0.260	1,310	0.220										
1498	4400	1.00	2,110	0.300	1,480	0.260										
1566	4600	1.10	2,220	0.345	1,650	0.305										
1632	4800	1.20	2,330	0.390	1,800	0.35										
1701	5000	1.30	2,450	0.445	1,940	0.40										
1787	5250	1.43	2,580	0.53	2,120	0.47	1,210	0.365								
1873	5500	1.57	2,720	0.60	2,280	0.55	1,440	0.44								
1958	5750	1.72	2,850	0.68	2,440	0.63	1,670	0.53								
2040	6000	1.87	2,990	0.78	2,600	0.73	1,910	0.65								
2125	6250	2.03	3,130	0.88	2,740	0.80	2,120	0.75								
2210	6500	2.19	3,270	0.98	2,900	0.93	2,330	0.88	1,550	0.70						
2295	6750	2.36	3,390	1.10	3,010	1.05	2,520	0.98	1,770	0.83						
2380	7000	2.54	3,530	1.25	3,190	1.20	2,700	1.10	2,000	0.95						
2550	7500	2.92	3,810	1.55	3,480	1.45	3,050	1.38	2,460	1.3	1,780	1.15				

Double Inlet **Double Width**

No. 45 Turbovane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
1033	3800	0.749	2,750	0.300	1,460	0.225										
1088	4000	0.830	2,930	0.350	1,740	0.275										
1141	4200	0.915	3,120	0.405	2,040	0.340										
1195	4400	1.00	3,290	0.465	2,310	0.405										
1250	4600	1.10	3,450	0.55	2,570	0.475										
1305	4800	1.20	3,630	0.60	2,800	0.55										
1360	5000	1.30	3,820	0.70	3,030	0.63										
1428	5250	1.43	4,030	0.80	3,300	0.73	1,880	0.58								
1496	5500	1.57	4,240	0.93	3,560	0.85	2,240	0.70								
1563	5750	1.72	4,450	1.05	3,800	0.93	2,110	0.83								
1631	6000	1.87	4,670	1.20	4,050	1.15	2,970	1.00								
1700	6250	2.03	4,880	1.35	4,270	1.30	3,310	1.15								
1768	6500	2.19	5,100	1.55	4,520	1.45	3,630	1.35	2,410	1.10						
1835	6750	2.36	5,300	1.70	4,740	1.65	3,930	1.50	2,760	1.80						
1903	7000	2.54	5,500	1.90	4,970	1.85	4,210	1.70	3,120	1.50						
2040	7500	2.92	5,950	2.40	5,400	2.30	4,750	2.15	3,840	2.00	2,780	1.75				
2175	8000	3.32	6,350	2.85	5,850	2.80	5,250	2.65	4,480	2.45	3,540	2.25				
2310	8500	3.75	6,750	3.4	6,300	3.35	5,750	3.2	5,050	3.05	4,210	2.85	3,250	2.50		
2445	9000	4.20	7,150	4.1	6,750	4.05	6,200	3.8	5,600	3.65	4,860	3.5	4,020	3.15	3,080	2.8

Double Inlet **Double Width**

No. 50 Turbovane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water 878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
860	3800	0.749	3,980	0.43	2,100	0.320										
905	4000	0.830	4,230	0.50	2,510	0.395										
950	4200	0.915	4,500	0.58	2,950	0.49										
995	4400	1.00	4,750	0.68	3,340	0.58										
1040	4600	1.10	4,900	0.78	3,700	0.68										
1086	4800	1.20	5,250	0.88	4,040	0.78										
1130	5000	1.30	5,500	1.00	4,370	0.90										
1188	5250	1.43	5,800	1.15	4,760	1.05	2,720	0.83								
1244	5500	1.57	6,100	1.35	5,150	1.25	3,230	1.00								
1300	5750	1.72	6,450	1.55	5,500	1.40	3,770	1.20								
1350	6000	1.87	6,750	1.75	5,850	1.60	4,290	1.45								
1415	6250	2.03	7,050	1.95	6,150	1.85	4,780	1.70								
1470	6500	2.19	7,350	2.25	6,500	2.10	5,250	1.95	3,480	1.60						
1525	6750	2.36	7,650	2.50	6,850	2.35	5,650	2.20	3,990	1.85						
1582	7000	2.54	7,950	2.75	7,200	2.65	6,050	2.45	4,500	2.15						
1698	7500	2.92	8,550	3.45	7,800	3.30	6,850	3.1	5,550	2.85	4,010	2.50				
1810	8000	3.32	9,150	4.15	8,450	4.00	7,600	3.8	6,450	3.55	5,100	3.25				
1922	8500	3.75	9,750	4.95	9,100	4.85	8,300	4.6	7,300	4.95	6,100	4.1	4,700	3.6		
2035	9000	4.20	10,400	6.0	9,750	5.8	8,950	5.5	8,100	5.3	7,000	5.0	5,800	4.6	4,440	4.0
2150	9500	4.69	11,000	7.0	10,400	6.8	9,600	6.5	8,850	6.3	7,900	6.0	6,800	5.8	5,500	5.0
2260	10000	5.19	11,500	8.0			10,300	7.8	9,600	7.5	8,750	7.3	7,750	6.8	6,600	6.5
2375	10500	5.72	12,200	9.3			11,000	9.0	10,300	8.8	9,500	8.5	8,650	8.0	7,650	7.8
2490	11000	6.28	12,700	11.0			11,600	10.5	11,000	10.0	10,300	9.8	9,450	9.5	8,000	9.3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
2260	10000	5.19	5,450	5.8												
2375	10500	5.72	6,500	7.3	5,300	6.3										
2490	11000	6.28	7,550	8.8	6,450	8.0	5,500	7.5								

Double Inlet

No. 55 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
738	3800	.749	5,400	0.58	2,860	0.435										
776	4000	.830	5,750	0.68	3,410	0.55										
815	4200	.915	6,100	0.80	4,000	0.68										
855	4400	1.00	6,450	0.93	4,540	0.80										
893	4600	1.10	6,800	1.10	5,050	0.98										
932	4800	1.20	7,100	1.20	5,500	1.10										
970	5000	1.30	7,500	1.40	5,950	1.25										
1020	5250	1.43	7,900	1.60	6,500	1.45	3,700	1.15								
1070	5500	1.57	8,350	1.80	7,000	1.70	4,400	1.35								
1118	5750	1.72	8,750	2.10	7,450	1.95	5,100	1.65								
1165	6000	1.87	9,150	2.40	7,950	2.20	5,850	1.95								
1213	6250	2.03	9,600	2.65	8,400	2.50	6,500	2.30								
1262	6500	2.19	10,000	3.00	8,900	2.85	7,100	2.65	4,730	2.15						
1310	6750	2.36	10,400	3.40	9,300	3.2	7,700	2.95	5,450	2.50						
1360	7000	2.54	10,800	3.75	9,750	3.6	8,250	3.35	6,100	2.95						
1458	7500	2.92	11,700	4.65	10,700	4.5	9,300	4.2	7,550	3.9	5,450	3.45				
1552	8000	3.32	12,500	5.5	11,500	5.5	10,400	5.3	8,800	4.8	6,950	4.4				
1650	8500	3.75	13,300	6.8	12,400	6.5	11,300	6.3	9,950	6.0	8,250	5.5	6,400	4.85		
1750	9000	4.20	14,100	8.0	13,300	8.0	12,200	7.5	11,100	7.3	9,550	6.8	7,900	6.3	6,050	5.5
1845	9500	4.69	14,900	9.0	14,100	9.3	13,100	9.0	12,100	8.5	10,800	8.3	9,250	7.8	7,500	7.0
1940	10000	5.19	15,700	11.0			14,000	10.5	13,100	10.0	11,900	9.8	10,600	9.3	8,950	8.8
2040	10500	5.72	16,500	12.5			14,900	12.5	14,000	12.0	13,000	11.5	11,800	11.0	10,400	10.5
2139	11000	6.28	17,300	14.5			15,800	14.0	14,900	13.5	14,000	13.5	12,900	13.0	11,700	12.5
2232	11500	6.86	18,100	17.0			16,800	16.5	15,800	16.0	15,000	15.5	14,000	15.0	12,900	14.5
2329	12000	7.47	19,000	19.0			17,500	18.5	16,700	18.0	15,900	17.5	15,000	17.0	14,000	17.0
2424	12500	8.10	19,800	21.5			18,400	21	17,600	20.5	16,800	20	16,100	19.5	15,100	19.0
2520	13000	8.76	20,500	21			19,200	24	18,400	23.5	17,800	23	17,000	22	16,200	21.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
1940	10000	5.19	7,400	8.0												
2040	10500	5.72	8,850	9.8	7,200	8.8										
2139	11000	6.28	10,300	11.8	8,800	11.0	7,450	10.0								
2232	11500	6.86	11,600	14.0	10,300	13.0	8,850	12.5	7,600	11.5						
2329	12000	7.47	12,900	16.5	11,700	15.5	10,500	15.0	9,100	13.5						
2424	12500	8.10	14,100	19.0	13,000	18.5	11,700	17.5	10,500	16.5						
2520	13000	8.76	15,200	21.5	14,200	21.0	13,100	20	11,900	19.5	9,450	17.0				

Double Inlet # No. 60 Turbovane Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ¼" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
646	3800	.719	7,100	.78	3,730	.58										
680	4000	.830	7,500	90	4,460	.70										
715	4200	.915	8,000	1 05	5,250	88										
749	4400	1.00	8,450	1 20	5,950	1 03										
783	4600	1.10	8,850	1.40	6,600	1 20										
816	4800	1.20	9,300	1 55	7,200	1 40										
850	5000	1.30	9,800	1.75	7,750	1 60										
894	5250	1.43	10,300	2 05	8,450	1 90	4,830	1.45								
936	5500	1 57	10,900	2 40	9,150	2 20	5,750	1.80								
978	5750	1 72	11,400	2 70	9,750	2 50	6,700	2.15								
1020	6000	1.87	12,000	3 10	10,400	2 90	7,600	2 55								
1062	6250	2 03	12,500	3 50	11,000	3 25	8,500	3 00								
1104	6500	2 19	13,100	3 95	11,600	3 7	9,300	3.45	6,150	2.80						
1149	6750	2 36	13,600	4 4	12,200	4 2	10,100	3 85	7,100	3.30						
1190	7000	2 54	14,100	4 9	12,800	4 7	10,800	4.35	8,000	3.85						
1277	7500	2 92	15,200	6 0	13,900	5.8	12,200	5.5	9,850	5 0	7,100	4.5				
1360	8000	3 32	16,300	7.3	15,100	7 3	13,500	6.8	11,500	6 3	9,100	5.8				
1447	8500	3.75	17,300	8 8	16,200	8 5	14,700	8.3	13,000	8.0	10,800	7.3	8,350	6.3		
1530	9000	4 20	18,400	10 5	17,400	10.5	15,900	9.8	14,400	9.5	12,500	9.0	10,300	8.3	7,900	7.3
1615	9500	4 69	19,400	12 5	18,400	12 5	17,100	12 0	15,800	11.3	14,100	11.0	12,100	10.5	9,800	9 0
1700	10000	5.19	20,500	14 5			18,300	13.5	17,100	13.0	15,500	12.5	13,800	12.0	11,700	11 5
1785	10500	5.72	21,500	16 5			19,500	16 0	18,200	15.5	16,900	15 0	15,400	14.5	13,600	13.5
1870	11000	6.28	22,600	19			20,600	18.5	19,500	18.0	18,300	17.5	16,800	17 0	15,300	16.5
1958	11500	6 86	23,700	22			21,700	21.0	20,700	20.5	19,500	20	18,200	18 5	16,900	19
2040	12000	7 47	24,800	25			22,900	24.5	21,800	23.5	20,800	23	19,600	22.5	18,300	22
2125	12500	8 10	25,800	28			24,000	28	23,000	27	21,900	26	21,000	26	19,800	25
2210	13000	8.76	26,800	32			25,100	31	24,100	30	23,200	30	22,200	29	21,100	28
2295	13500	9 45	27,850	35			26,300	35	25,200	34	24,300	33	23,400	33	22,400	32
2380	14000	10 18	28,900	39			27,400	39	26,400	38	25,500	38	24,600	37	23,700	36
2465	14500	10 90	29,900	43					27,500	43	26,700	42	25,800	41	24,900	40
2555	15000	11 68	31,100	48					28,600	48	27,800	47	26,900	46	26,100	45

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
1700	10000	5 19	9,650	11 0												
1785	10500	5 72	11,600	12 5	9,400	11.5										
1870	11000	6.28	13,400	15.5	11,500	14.0	9,750	13.0								
1958	11500	6 86	15,200	18.5	13,400	17.5	11,600	16.0	9,900	15.0						
2040	12000	7.47	16,900	21 5	15,200	20.5	13,700	19.5	11,900	18.0						
2125	12500	8.10	18,400	24.5	17,000	24	15,300	22.5	13,700	21.5						
2210	13000	8.76	19,900	28	18,600	28	17,000	26	15,500	25	12,400	22.5				
2295	13500	9.45	21,300	32	20,100	31	18,700	30	17,300	29	14,200	26				
2380	14000	10 18	22,800	36	21,600	35	20,200	34	18,900	33	16,100	31	13,200	28		
2465	14500	10.90	24,100	40	23,000	39	21,800	38	20,600	38	17,900	35	15,000	32	12,300	29
2555	15000	11.68	25,300	45	24,300	44	23,300	43	22.200	42	19,700	41	16,800	37	14,300	34

Double Inlet **Double Width**

No. 65 Turbovane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
574	3800	0.749	8,950	0.98	4,730	0.73										
604	4000	0.830	9,550	1.15	5,650	0.90										
634	4200	0.915	10,200	1.35	6,650	1.10										
664	4400	1.00	10,700	1.55	7,500	1.35										
695	4600	1.10	11,300	1.75	8,350	1.55										
725	4800	1.20	11,800	2.00	9,100	1.80										
755	5000	1.30	12,400	2.25	9,850	2.05										
793	5250	1.43	13,100	2.60	10,800	2.40	6,150	1.85								
831	5500	1.57	13,800	3.00	11,600	2.75	7,300	2.25								
868	5750	1.72	14,500	3.15	12,400	3.20	8,500	2.75								
906	6000	1.87	15,200	3.95	13,200	3.65	9,650	3.25								
945	6250	2.03	15,900	4.4	13,900	4.1	10,800	3.8								
981	6500	2.19	16,600	5.0	14,700	4.7	11,800	4.4	7,850	3.55						
1020	6750	2.36	17,200	5.5	15,500	5.3	12,800	4.9	9,000	4.20						
1058	7000	2.54	17,900	6.3	16,200	6.0	13,700	5.5	10,200	4.85						
1132	7500	2.92	18,300	7.8	17,700	7.5	15,500	7.0	12,500	6.5	9,050	5.8				
1208	8000	3.32	20,600	9.3	19,100	9.0	17,100	8.5	14,600	8.0	11,500	7.3				
1282	8500	3.75	22,000	11.0	20,500	11.0	18,700	10.5	16,500	10.0	13,700	9.3	10,600	8.0		
1360	9000	4.20	23,400	13.5	22,000	13.0	20,200	12.5	18,300	12.0	15,800	11.5	13,100	10.5	10,000	9.0
1436	9500	4.69	24,700	15.5	23,400	15.5	21,700	15.0	20,000	14.0	17,800	13.5	15,300	13.0	12,500	11.5
1510	10000	5.19	26,000	18.0			23,200	17.5	21,700	16.5	19,700	16	17,500	15.5	14,900	14.5
1585	10500	5.72	27,400	21.0			24,700	20.5	23,100	19.5	21,500	19	19,500	18.5	17,300	17.5
1660	11000	6.28	28,800	24.5			26,100	23.5	24,700	22.5	23,200	22	21,400	21.5	19,400	20.5
1735	11500	6.86	30,000	28			27,500	27	26,200	26	24,800	25	23,200	25	21,400	24
1811	12000	7.47	31,400	32			29,000	31	27,700	30	26,400	29	24,900	28	23,300	28
1888	12500	8.10	32,800	36			30,500	35	29,200	34	27,800	33	26,600	32	25,000	32
1961	13000	8.76	34,000	40			31,800	40	30,500	39	29,500	38	28,100	37	26,800	36
2040	13500	9.45	35,400	45			33,300	45	32,000	43	30,900	42	29,800	41	28,500	41
2115	14000	10.18	36,700	50			34,800	48	33,500	49	32,400	48	31,300	47	30,000	46
2190	14500	10.90	38,000	56					34,900	56	33,900	52	32,700	52	31,600	50
2263	15000	11.68	39,400	60					36,300	60	35,300	60	34,200	58	33,200	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
1510	10000	5.19	12,300	13.0												
1585	10500	5.72	14,700	16.0	12,000	14.5										
1660	11000	6.28	17,100	19.5	14,600	18	12,400	16.5								
1735	11500	6.86	19,300	23	17,000	22	14,700	20.5	12,700	19						
1811	12000	7.47	21,400	27	19,300	26	17,300	24.5	15,100	23						
1888	12500	8.10	23,400	31	21,600	30	19,400	29	17,400	27						
1961	13000	8.76	25,300	35	23,600	35	21,600	33	19,700	32	15,700	28				
2040	13500	9.45	27,000	40	25,600	39	23,800	38	21,900	37	18,500	33				
2115	14000	10.18	28,900	45	27,500	44	25,600	43	24,000	42	20,400	39	16,800	35		
2190	14500	10.90	30,500	50	29,100	50	27,600	49	26,200	48	22,700	45	19,100	41	15,600	37
2263	15000	11.68	32,100	58	30,900	56	29,600	56	28,100	56	25,000	52	21,400	47	18,100	44

Double Inlet

No. 70 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
516	3800	0.749	11,100	1.20	5,850	0.90										
543	4000	0.830	11,800	1.40	6,950	1.10										
570	4200	0.915	12,500	1.65	8,200	1.35										
597	4400	1.00	13,200	1.90	9,250	1.65										
625	4600	1.10	13,900	2.20	10,300	1.90										
652	4800	1.20	14,600	2.45	11,200	2.20										
680	5000	1.30	15,300	2.80	12,200	2.50										
712	5250	1.43	16,200	3.20	13,200	2.95	7,550	2.30								
746	5500	1.57	17,000	3.70	14,300	3.40	8,950	2.75								
781	5750	1.72	17,900	4.25	15,300	3.90	10,500	3.35								
815	6000	1.87	18,700	4.85	16,300	4.45	11,900	4.00								
849	6250	2.03	19,600	5.5	17,200	5.0	13,300	4.65								
882	6500	2.19	20,400	6.3	18,100	5.8	14,600	5.5	9,650	4.35						
916	6750	2.36	21,200	7.0	19,000	6.5	15,800	6.0	11,100	5.3						
950	7000	2.54	22,100	7.8	19,900	7.3	16,900	6.8	12,500	6.0						
1020	7500	2.92	23,800	9.5	21,800	9.3	19,100	8.5	15,400	8.0	11,200	7.0				
1088	8000	3.32	25,400	11.5	23,500	11.5	21,100	10.5	18,000	9.8	14,200	9.0				
1155	8500	3.75	27,100	13.5	25,300	13.5	23,000	13.0	20,300	12.5	16,900	11.5	13,100	10.0		
1221	9000	4.20	28,800	16.5	27,100	16	24,900	15.0	22,500	14.5	19,500	14.0	16,100	12.5	12,200	11.5
1290	9500	4.69	30,400	19.5	28,800	19	26,700	18.0	24,600	17.5	22,000	16.5	18,900	16.0	15,400	14.0
1358	10000	5.19	32,000	22.5			28,600	21.5	26,700	20.5	24,300	20.0	21,600	19.0	18,300	17.5
1425	10500	5.72	33,700	26			30,400	25	28,500	24	26,500	23.5	24,000	22.5	21,300	21.5
1493	11000	6.28	35,400	30			32,200	29	30,400	28	28,600	27	26,300	26	23,900	26
1561	11500	6.86	37,000	34			33,900	33	32,300	32	30,500	31	28,500	31	26,400	30
1630	12000	7.47	38,700	39			35,700	38	34,100	37	32,500	36	30,600	35	28,700	34
1698	12500	8.10	40,400	44			37,600	43	35,900	42	34,300	41	32,800	40	30,900	39
1763	13000	8.76	42,000	49			39,300	49	37,600	48	36,300	47	34,700	45	33,000	44
1831	13500	9.45	43,500	56			41,000	56	39,100	52	38,000	52	36,600	50	35,100	50
1900	14000	10.18	45,200	62			42,800	60	41,300	60	39,900	60	38,500	58	37,100	58
1969	14500	10.90	46,800	68					42,900	68	41,800	66	40,300	66	38,900	62
2040	15000	11.68	48,600	76					44,800	76	43,500	72	42,200	72	40,900	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
1358	10000	5.19	15,200	16												
1425	10500	5.72	18,100	20	14,700	17.5										
1493	11000	6.28	21,000	24	18,000	22	15,300	20.5								
1561	11500	6.86	23,800	29	20,900	27	18,100	25	15,500	23.5						
1630	12000	7.47	26,400	33	23,800	32	21,400	30	18,600	28						
1698	12500	8.10	28,800	38	26,600	37	23,900	36	21,500	34						
1763	13000	8.76	31,100	44	29,100	43	26,600	41	24,300	39	19,300	35				
1831	13500	9.45	33,300	49	31,500	48	29,300	47	27,000	46	22,200	41				
1900	14000	10.18	35,600	56	33,800	56	31,500	52	29,600	52	25,100	48	20,600	41		
1969	14500	10.90	37,600	62	35,900	62	34,000	60	32,200	60	28,000	56	23,500	50	19,200	46
2040	15000	11.68	39,500	70	38,100	68	36,500	68	34,700	68	30,800	62	26,300	58	22,300	56

Double Inlet

No. 80 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .285 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
430	3800	0.749	15,900	1.75	8,400	1.30										
453	4000	0.830	17,000	2.05	10,100	1.60										
476	4200	0.915	18,000	2.35	11,800	1.95										
498	4400	1.00	19,000	2.70	13,400	2.35										
521	4600	1.10	20,000	3.15	14,800	2.75										
544	4800	1.20	21,000	3.50	16,200	3.15										
566	5000	1.30	22,100	4.00	17,500	3.6										
594	5250	1.43	23,300	4.65	19,100	4.2	10,900	3.30								
624	5500	1.57	24,500	5.3	20,600	4.9	12,900	4.00								
651	5750	1.72	25,700	6.0	22,000	5.8	15,100	4.85								
680	6000	1.87	27,000	7.0	23,400	6.5	17,200	5.8								
708	6250	2.03	28,200	7.8	24,700	7.3	19,100	6.8								
735	6500	2.19	29,400	9.0	26,100	8.5	21,000	7.8	13,900	6.3						
765	6750	2.36	30,600	10.0	27,400	9.5	22,700	8.8	16,000	7.5						
793	7000	2.51	31,800	11.0	28,700	10.5	24,300	9.8	18,000	8.5						
850	7500	2.92	34,200	13.5	31,300	13.0	27,400	12.5	22,200	11.5	16,100	10.0				
906	8000	3.32	36,600	16.5	33,900	16.0	30,400	15.0	25,900	14	20,500	13.0				
963	8500	3.75	39,000	20.0	36,500	19.5	33,200	18.5	29,300	18	24,300	16.5	18,800	14.5		
1020	9000	4.20	41,400	23.5	39,100	23.5	35,800	22	32,500	21	28,100	20	23,200	18.5	17,800	16.0
1075	9500	4.69	43,800	28	46,500	27	38,500	26	35,500	25	31,600	24	27,200	23	22,100	20.5
1131	10000	5.19	46,100	32			41,100	31	38,500	30	35,000	29	31,100	27	26,300	26
1189	10500	5.72	48,500	37			43,800	36	41,000	35	38,100	34	34,600	32	30,600	31
1243	11000	6.28	51,000	43			46,400	42	43,800	40	41,200	39	37,900	38	34,800	37
1300	11500	6.86	53,500	49			48,800	48	46,500	46	43,900	45	41,000	44	38,000	43
1359	12000	7.47	55,500	56			51,500	56	49,100	52	46,800	52	44,100	50	41,300	50
1414	12500	8.10	58,000	62			54,000	62	52,000	60	49,400	60	47,200	58	49,500	58
1470	13000	8.76	60,500	70			56,500	70	54,000	68	52,000	68	49,900	66	47,500	66
1528	13500	9.45	63,000	80			59,000	80	57,000	78	55,000	76	52,500	72	50,500	72
1582	14000	10.18	65,000	88			61,500	88	59,500	88	57,500	86	55,000	82	53,500	82
1640	14500	10.90	67,500	98					62,000	98	60,000	96	58,000	92	56,000	90
1698	15000	11.68	70,000	110					64,500	110	62,500	105	60,500	105	59,000	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
1131	10000	5.19	21,800	23												
1189	10500	5.72	26,000	29	21,200	25										
1243	11000	6.28	30,200	35	25,800	32	21,900	30								
1300	11500	6.86	34,300	41	30,100	39	26,000	36	22,300	33						
1359	12000	7.47	38,000	48	34,300	46	30,700	44	26,800	40						
1414	12500	8.10	41,500	56	38,300	52	34,500	50	30,900	48						
1470	13000	8.76	44,800	62	41,800	62	38,300	60	34,900	58	27,800	50				
1528	13500	9.45	48,000	70	45,300	70	42,100	68	38,900	66	31,900	60				
1582	14000	10.18	51,000	80	48,700	78	45,400	78	42,600	76	36,100	70	29,700	62		
1640	14500	10.90	54,000	90	51,500	88	49,000	88	46,400	86	40,300	80	33,800	72	27,600	68
1698	15000	11.68	57,000	100	55,000	98	52,500	98	49,900	96	44,400	92	37,900	86	32,100	78

Double Inlet **Double Width**

No. 90 Turbovane Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ¼" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
369	3800	0.749	21,700	2.35	11,400	1.75										
389	4000	0.830	23,000	2.75	15,700	2.15										
408	4200	0.915	24,500	3.20	16,000	2.65										
428	4400	1.00	25,800	3.65	18,200	3.15										
446	4600	1.10	27,100	4.25	20,200	3.70										
466	4800	1.20	28,500	4.8	22,000	4.30										
486	5000	1.30	30,000	5.5	23,800	4.85										
510	5250	1.43	31,700	6.3	25,900	5.8	14,800	4.45								
534	5500	1.57	33,300	7.3	28,000	6.8	17,600	5.5								
558	5750	1.72	35,000	8.3	29,900	7.8	20,500	6.5								
584	6000	1.87	36,700	9.0	31,800	8.8	23,300	7.8								
607	6250	2.03	38,300	11.0	33,500	10.0	26,000	9.3								
631	6500	2.19	40,000	12.0	35,500	11.5	28,500	11.0	18,900	8.5						
656	6750	2.36	41,500	13.5	37,300	13.0	30,800	12.0	21,700	10.0						
680	7000	2.51	43,200	15.0	39,000	14.5	33,100	13.5	24,500	12.0						
729	7500	2.92	46,600	18.5	42,600	18	37,300	17.0	30,100	15.5	21,800	13.5				
777	8000	3.32	49,800	22.5	46,000	22	41,300	20.5	35,200	19	27,800	17.5				
826	8500	3.75	53,000	27	49,500	26	45,100	25	39,800	24	33,100	22.5	25,600	19.5		
874	9000	4.20	56,500	32	53,000	32	48,700	30	44,100	29	38,200	27	31,700	25	24,200	22
923	9500	4.69	59,500	38	56,500	37	52,500	36	48,200	34	43,000	33	37,000	31	30,000	28
971	10000	5.19	62,500	44			56,000	42	52,000	40	47,600	39	42,300	37	35,800	35
1020	10500	5.72	66,000	50			59,500	49	56,000	47	52,000	46	47,000	44	41,700	42
1069	11000	6.28	68,500	58			63,000	58	59,500	56	56,000	52	51,500	52	46,800	50
1118	11500	6.86	72,500	68			66,500	66	63,000	62	59,500	62	56,000	60	51,500	60
1166	12000	7.47	76,000	76			70,000	76	67,000	72	63,500	70	60,000	68	56,000	68
1212	12500	8.10	79,000	88			73,500	86	70,500	82	67,000	80	64,000	78	60,500	78
1261	13000	8.76	82,000	98			77,000	96	73,500	92	71,000	90	68,000	88	64,500	88
1310	13500	9.45	85,500	110			80,500	110	77,000	105	74,500	105	71,500	100	68,500	98
1360	14000	10.18	88,500	120			84,000	120	81,000	120	78,000	115	75,500	115	72,500	110
1409	14500	10.90	91,500	135					84,000	135	82,000	130	79,000	125	76,000	125
1458	15000	11.68	95,000	150					87,500	145	85,000	145	82,500	140	80,000	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
971	10000	5.19	29,700	32												
1020	10500	5.72	35,400	39	28,800	35										
1069	11000	6.28	41,100	47	35,100	43	29,900	40								
1118	11500	6.86	46,500	56	40,900	52	35,400	49	30,300	46						
1166	12000	7.47	51,500	66	46,600	62	41,800	60	36,400	56						
1212	12500	8.10	56,500	76	52,000	72	46,800	70	42,100	66						
1261	13000	8.76	61,000	86	57,000	86	52,000	80	47,500	78	37,800	68				
1310	13500	9.45	65,000	98	61,500	96	57,500	92	53,000	90	43,400	80				
1360	14000	10.18	69,500	110	66,000	110	61,500	105	58,000	105	49,100	92	40,400	86		
1409	14500	10.90	73,500	125	70,000	120	65,000	120	63,000	115	55,000	110	46,000	100	37,500	90
1458	15000	11.68	77,500	135	74,500	135	71,500	135	68,000	130	60,500	125	51,500	115	43,700	105

Double Inlet

No. 100 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water 878 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
324	3800	0.749	28,300	3.05	14,900	2.30										
341	4000	0.830	30,000	3.60	17,900	2.80										
358	4200	0.915	32,000	4.15	20,900	3.50										
375	4400	1.00	33,800	4.8	23,800	4.15										
392	4600	1.10	35,500	5.5	26,300	4.85										
409	4800	1.20	37,200	6.3	28,800	5.5										
426	5000	1.30	39,200	7.0	31,000	6.3										
447	5250	1.43	41,300	8.3	33,800	7.5	19,300	5.75								
469	5500	1.57	43,500	9.5	36,500	8.8	23,000	7.0								
490	5750	1.72	45,700	11.0	39,000	10.0	26,800	8.5								
511	6000	1.87	47,900	12.5	41,500	11.5	30,500	10.5								
532	6250	2.03	50,000	14.0	43,800	13.0	33,900	12.0								
554	6500	2.19	52,000	16.0	46,300	15.0	37,200	14.0	24,700	12.0						
575	6750	2.36	54,000	17.5	48,600	16.5	40,300	15.5	28,300	13.0						
596	7000	2.51	56,500	19.5	51,000	18.5	43,200	17.5	32,000	15.5						
639	7500	2.92	61,000	21.5	55,500	23.5	48,700	22	39,400	20.5	28,500	18				
681	8000	3.32	65,000	29	60,000	29	54,000	27	46,000	25	36,300	23				
724	8500	3.75	69,000	35	64,500	34	59,000	33	52,000	32	43,200	29	33,400	25		
766	9000	4.20	73,500	42	69,500	41	63,500	39	57,500	38	49,800	36	41,200	33	31,500	28
809	9500	4.69	77,500	49	73,500	49	68,500	47	63,000	45	56,000	43	48,300	41	39,300	36
851	10000	5.19	82,000	58			73,000	56	68,000	52	62,000	50	55,000	48	46,800	45
894	10500	5.72	86,000	68			77,500	66	73,000	62	67,500	60	61,500	58	54,500	56
936	11000	6.28	90,500	78			82,500	76	77,500	72	73,000	70	67,500	68	61,000	66
980	11500	6.86	94,500	88			86,500	86	82,500	82	78,000	80	73,000	78	67,500	78
1021	12000	7.47	99,000	100			91,500	98	87,000	96	83,000	92	78,500	90	73,000	88
1064	12500	8.10	104,000	115			96,000	110	92,000	110	87,500	105	83,500	105	79,000	100
1108	13000	8.76	107,000	130			101,000	125	96,000	120	92,500	120	88,500	115	84,500	115
1149	13500	9.45	112,000	145			105,000	140	101,000	140	97,500	135	93,500	130	89,500	130
1192	14000	10.18	116,000	160			110,000	155	106,000	155	102,000	150	98,500	150	94,500	145
1234	14500	10.90	120,000	180					110,000	175	107,000	170	103,000	165	99,500	165
1279	15000	11.68	124,000	195					115,000	190	111,000	190	108,000	185	105,000	180

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 4½″ Water 2.60 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch	
851	10000	5.19	38,700	41												
894	10500	5.72	46,200	50	37,600	45										
936	11000	6.28	53,500	62	45,800	58	39,000	52								
980	11500	6.86	61,000	72	53,500	70	46,300	66	39,600	60						
1021	12000	7.47	67,500	86	61,000	82	54,500	78	47,500	72						
1064	12500	8.10	73,500	98	68,000	96	61,000	90	55,000	86						
1108	13000	8.76	79,500	110	74,500	110	68,000	105	62,000	100	49,800	90				
1149	13500	9.45	85,000	125	80,500	125	75,000	120	69,000	120	56,500	105				
1192	14000	10.18	91,000	145	86,500	140	80,500	140	75,500	135	64,000	125	53,000	115		
1234	14500	10.90	96,000	160	91,500	160	87,000	155	82,500	150	71,500	145	60,000	130	49,100	120
1279	15000	11.68	101,000	175	97,500	175	93,500	175	88,500	170	79,000	165	67,500	150	57,000	140

Double Inlet

No. 110 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
288	3800	0.749	35,900	3.90	18,900	2.90										
302	4000	0.830	38,100	4.55	22,600	3.55										
318	4200	0.915	40,500	5.3	26,500	4.4										
332	4400	1.00	42,800	6.0	30,100	5.3										
348	4600	1.10	45,000	7.0	33,400	6.3										
363	4800	1.20	47,200	8.0	36,400	7.0										
378	5000	1.30	49,600	9.0	39,400	8.0										
397	5250	1.43	52,500	10.5	42,900	9.5	24,500	7.5								
416	5500	1.57	55,000	12.0	46,300	11.0	29,100	9.0								
435	5750	1.72	58,000	13.5	49,500	12.5	34,000	11.0								
453	6000	1.87	60,500	16.0	52,500	14.5	38,600	13.0								
472	6250	2.03	63,500	17.5	55,500	16.5	43,000	15.0								
491	6500	2.19	66,000	20.0	59,000	19.0	47,200	17.5	31,300	14.0						
510	6750	2.36	69,000	22.5	61,500	21.0	51,000	19.5	36,000	16.5						
529	7000	2.51	71,500	25	64,500	23.5	55,000	22	40,500	19.5						
567	7500	2.92	77,000	31	70,500	30	61,500	28	49,900	26	36,100	23				
604	8000	3.32	82,500	37	76,500	36	68,500	34	58,500	32	46,000	29				
612	8500	3.75	88,000	44	82,000	44	74,500	42	66,000	40	54,500	37	42,300	32		
680	9000	4.20	93,500	52	88,000	52	80,500	49	73,000	48	63,500	46	52,500	41	40,000	36
718	9500	4.69	98,500	62	98,500	62	86,500	60	80,000	58	71,000	56	61,000	52	49,800	46
755	10000	5.19	104,000	72			92,500	70	86,500	68	79,000	66	70,000	62	59,500	58
793	10500	5.72	109,000	86			98,500	82	92,500	78	86,000	76	78,000	72	69,000	70
830	11000	6.28	115,000	98			105,000	96	98,500	90	92,500	88	80,500	85	77,500	82
868	11500	6.86	120,000	110			110,000	110	105,000	105	99,000	105	92,500	100	85,500	98
906	12000	7.47	126,000	125			116,000	125	111,000	120	106,000	120	99,500	115	93,000	115
944	12500	8.10	131,000	145			122,000	140	117,000	135	111,000	135	100,000	130	100,000	130
981	13000	8.76	136,000	160			127,000	160	122,000	155	118,000	150	113,000	150	107,000	145
1020	13500	9.45	142,000	180			133,000	180	128,000	175	124,000	170	119,000	165	114,000	165
1058	14000	10.18	147,000	200			139,000	200	134,000	195	130,000	190	125,000	185	120,000	185
1097	14500	10.90	152,000	220					140,000	220	136,000	215	131,000	210	126,000	205
1132	15000	11.68	157,000	245					145,000	240	141,000	240	137,000	235	133,000	230

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
755	10000	5.19	49,100	52												
793	10500	5.72	58,500	66	47,700	58										
830	11000	6.28	68,000	78	58,000	72	49,500	68								
868	11500	6.86	77,000	92	67,500	88	58,500	82	50,000	76						
906	12000	7.47	85,500	110	77,000	105	69,000	98	60,500	90						
944	12500	8.10	93,500	125	86,000	120	77,500	115	69,500	110						
981	13000	8.76	101,000	140	94,000	140	86,500	135	78,500	130	62,500	115				
1020	13500	9.45	108,000	160	102,000	160	95,000	160	87,500	150	72,000	135				
1058	14000	10.18	116,000	180	110,000	180	102,000	175	96,000	170	81,500	155	67,000	145		
1097	14500	10.90	122,000	205	116,000	200	111,000	195	105,000	195	90,500	180	76,000	165	62,000	150
1132	15000	11.68	128,000	225	124,000	225	118,000	220	113,000	215	100,000	205	85,500	190	72,000	325

Double Inlet

No. 120 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

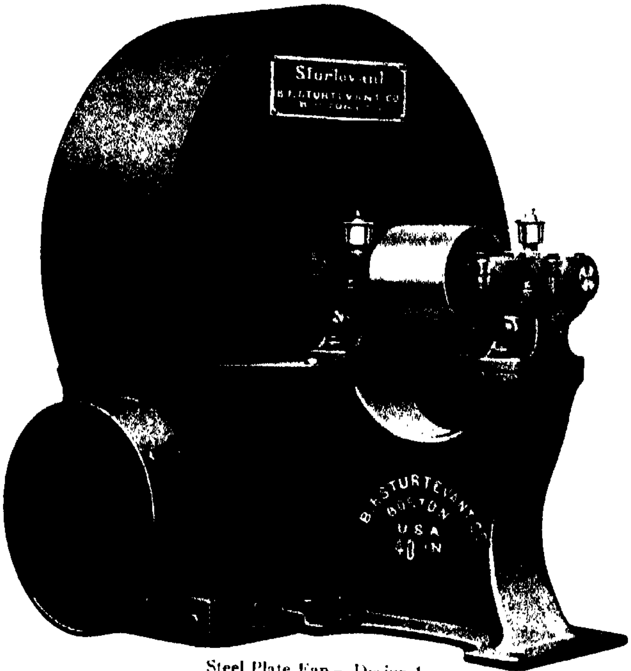
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
258	3800	0.749	41,200	4.8	23,300	3.55										
272	4000	0.830	47,000	5.5	27,800	4.4										
285	4200	0.915	50,000	6.5	32,700	5.5										
299	4400	1.00	52,500	7.5	37,000	6.5										
313	4600	1.10	55,500	8.8	41,200	7.5										
326	4800	1.20	58,000	9.8	44,900	8.8										
340	5000	1.30	61,000	11.5	48,500	10.0										
357	5250	1.43	64,500	13.0	53,000	12.0	30,200	9.0								
374	5500	1.57	68,000	15.0	57,000	13.5	35,800	11.0								
391	5750	1.72	71,500	17.0	61,000	15.5	41,800	13.5								
408	6000	1.87	75,000	19.5	65,000	18.0	47,600	16.0								
425	6250	2.03	78,000	22.0	68,500	20.5	53,000	18.5								
442	6500	2.19	81,500	24.5	72,500	23.5	58,000	21.5	38,600	17.5						
459	6750	2.36	85,000	28	76,000	26	63,000	24	44,300	20.5						
476	7000	2.54	88,000	31	79,500	29	67,500	27	50,000	24						
510	7500	2.92	95,000	38	87,000	37	76,000	34	61,500	32	44,500	28				
544	8000	3.32	102,000	46	94,000	45	84,500	42	72,000	39	57,000	36				
577	8500	3.75	108,000	56	101,000	56	92,000	50	81,000	46	67,500	46	52,000	40		
611	9000	4.20	115,000	66	109,000	66	99,500	60	90,000	58	78,000	56	64,500	50	49,300	45
645	9500	4.69	122,000	78	115,000	78	106,000	72	98,500	70	87,500	68	75,500	62	61,500	58
679	10000	5.19	128,000	90			114,000	86	107,000	82	97,000	80	86,000	76	73,000	70
713	10500	5.72	135,000	105			122,000	100	114,500	98	106,000	92	96,000	90	85,000	86
746	11000	6.28	142,000	120			129,000	115	122,000	115	114,000	110	105,000	105	95,500	105
780	11500	6.86	148,000	140			136,000	135	129,000	130	122,000	125	114,000	125	106,000	120
815	12000	7.47	155,000	155			143,000	155	137,000	150	130,000	145	123,000	140	115,000	140
849	12500	8.10	162,000	175			150,000	175	144,000	170	137,000	165	131,000	160	124,000	160
882	13000	8.76	168,000	200			157,000	195	151,000	190	145,000	185	139,000	180	132,000	180
916	13500	9.45	174,000	220			164,000	220	158,000	215	152,000	210	147,000	205	140,000	200
950	14000	10.18	181,000	245			171,000	245	165,000	240	160,000	235	154,000	230	148,000	225
985	14500	10.90	187,000	275					172,000	270	167,000	265	161,000	260	156,000	255
1019	15000	11.68	194,000	300					179,000	300	174,000	295	169,000	285	164,000	285

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.60 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch	
679	10000	5.19	60,500	66												
713	10500	5.72	72,500	80	59,000	70										
746	11000	6.28	84,000	98	71,500	88	61,000	82								
780	11500	6.86	95,000	115	83,500	110	72,500	100	62,000	92						
815	12000	7.47	106,000	135	95,000	130	80,500	120	74,500	115						
849	12500	8.10	116,000	155	106,000	150	95,500	145	86,000	135						
882	13000	8.76	125,000	175	116,000	175	107,000	165	97,000	160	77,000	140				
916	13500	9.45	133,000	200	126,000	195	117,000	190	108,000	185	88,500	165				
950	14000	10.18	142,000	225	135,000	220	126,000	215	118,000	210	101,000	195	82,500	175		
985	14500	10.90	151,000	250	144,000	245	136,000	240	129,000	240	112,000	225	94,000	205	76,500	185
1019	15000	11.68	158,000	280	152,000	275	146,000	270	139,000	265	123,000	255	105,000	235	89,000	215

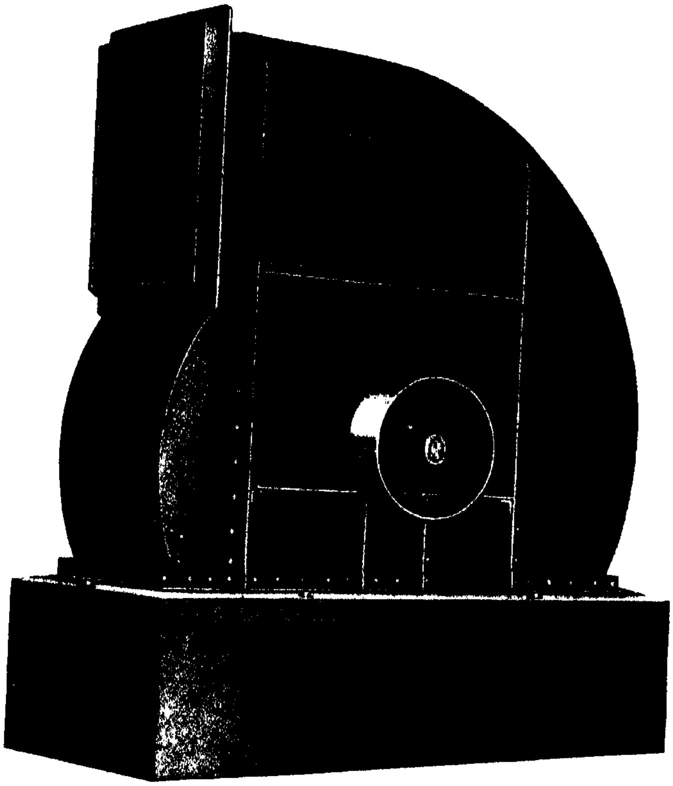
STEEL PLATE FANS

Design 1

Dimensions, Capacities, Horse Powers



Steel Plate Fan — Design 1
Overhung Wheel, Bottom Horizontal Discharge, Right Hand, Full Housing



Steel Plate Fan Design 1
Overhung Pulley, Top Horizontal Discharge, Right Hand, Three-quarter Housing

STEEL PLATE FAN—DESIGN 1

SPECIFICATIONS

Furnish and erect a Sturtevant steel plate fan, ...housed; .... discharge; hand; ......inlet; overhung . . . . . : capable of delivering cubic feet of air per minute against a static pressure of . . .inches, when running at . . .R. P. M. and requiring not more than . . . . . .H. P.

The fan shall be ......inches wide, with its outlet.... .inches by ...... inches and its inlet .... inches diameter.

Housing. The fan shall be constructed with its housing side sheets of . ..... gauge, its roundabout or scroll sheet of........gauge. The roundabout sheet shall be secured to the scroll angles by tap bolts of ample size spaced 5 inches on centers. Scroll angles shall be......inches x . . . . inches x . . . inches.

The sheets used in the housing shall be the best grade of blue annealed steel plate. Housing shall be substantially braced by angle iron stiffeners and shall be built upon an angle iron base of ample strength to give the required rigidity.

Wheel. The blast wheel shall be . . .inches in diameter, of the side plate type containing . floats of . . .gauge, with annular side plates of. . . . gauge. The floats shall be strongly riveted to steel T-arms. . .inches x . . . inches x inches, firmly cast into a hub spider of cast iron.

(In the smaller size wheels one spider only is used while in larger wheels two or more spiders are used as necessary.)

The wheel shall be given a careful balance during and after assembly to insure vibrationless operation.

Shaft. The shaft shall be......inches in diameter of best open hearth steel turned and ground to exact size.

Bearings. The bearings shall be cast iron, split in a plane coincident with the center of the shaft, and lined with Sturtevant White Metal. They shall be carried in chairs so as to be self aligning.

Oiling shall be accomplished by means of brush oilers sunk in wells and held against the bottom of the shaft by spiral springs. This, combined with capillary attraction, insures a copious supply of oil being supplied at the right point.

Where the fans are to be used for the handling of hot gases, bearings shall be furnished containing cored passages with outlets tapped for pipe connections so that effective water circulation may be secured.

In the case of large fans, pillow block type bearings shall be furnished in place of the chair box type.

STEEL PLATE FAN—DESIGN 1

EXPLANATION OF SPECIFICATION REQUIREMENTS

Wheel. On account of the higher peripheral speeds of the larger sizes, greater strength is necessary than in the smaller sizes. For this reason steel T-arms are cast into the hub rather than making the spider of one casting.

Bearings. The brush oiling arrangement has proved itself extremely satisfactory in service. Ring oil bearings, however, will be supplied if specified.

Steel Plate Fan—Design 1

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Steel Plate Fan—Design 1

APPROXIMATE WEIGHTS

Full Housing				Three-quarter Housing	Extra Heavy, Full or Three-quarter Housing	
Size	Overhung Pulley	Overhung Wheel	Duplex Fans		Single Width	Double Width
30		290				
35		435				
40		547				
45		755				
50	667	963				
60	915	1,198	2,350		1,200	
70	1,204	1,694	3,511		1,600	
80	1,450	1,720	4,100	1,200	2,000	4,400
90	1,675	2,360	4,400	1,500	2,300	5,000
100	2,020	2,690	4,664	2,000	2,800	5,700
110	2,655		6,100	2,500	3,300	6,200
120	3,250		7,400	2,800	3,800	7,000
140	4,500		9,051	3,200	5,000	9,700
160	5,584		11,000	4,500	6,400	
180	6,100			6,000	8,000	
200	7,200			7,700	9,800	
220	8,400			9,000	11,600	
240	9,500			11,000	13,500	
260				12,500		
280				14,500		
300				16,000		
320				18,000		
360				24,000		
400				31,000		

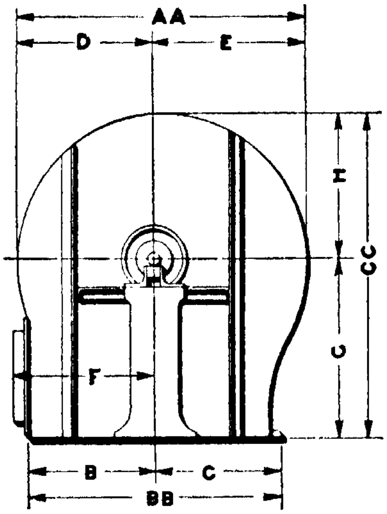
All weights are net

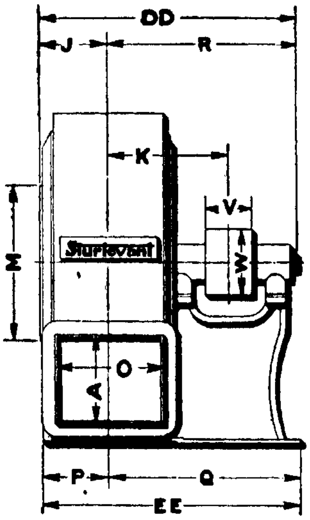
Single Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
30	11	10	11⅜	11½	11½	13½	16⅝	13	8¼	12	11		6 1/16	20½	21	5	5¼	26	21⅜	29⅝	29¼	26 15/16	18	1¾	½	½
35	13	12	14¼	13½	17	16	19 9/16	15¼	10⅛	14¼	13		7½	24¼	24⅝	6	6	30½	26¼	34 13/16	31¾	31½	21	1½	½	½
40	14¾	14	16¼	16½	20½	18½	23¼	18½	10⅞	15⅜	15		8 3/16	26	26⅞	6¼	6¾	37	30¼	41¾	37¼	34 3/16	21	1 11/16	⅝	½
45	16⅞	16⅝	18¼	19	23	21¼	25½	21	11½	17¼	17		9⅛	28¼	29¾	7½	8	42	34⅞	46½	41¼	37⅞	27	1 15/16	¾	⅝
50	18¾	18½	22	21	25	23½	28⅛	23	12¾	19	19		10	31½	32¾	8½	8½	46	40½	51⅛	45½	41½	30	1 15/16	¾	⅝
55	20½	20¼	22¼	22½	27½	25¼	31¼	25	14 5/16	21	21		10¾	34	36	9⅛	9½	50	42¾	56¼	50 5/16	44¼	33	2 3/16	¾	¾
60	22¾	20¼	25	24	30	25¾	33¾	27	11¼	20¾	27½		11¼	32¾	34½	6⅛	14	54	45¼	60¾	45¼	41	36	1 15/16	¾	¾
70	25¼	22¾	30¼	27¼	34¼	28¾	39¼	30¾	12¾	23½	30		13½	38⅛	39	7½	16	62½	53	70	51¾	51⅞	42	2 3/16	¾	¾
80	28½	28	29¼	31	39	30½	45	35	13½	26¼	34	24¾	15 1/16	42½	43	7½	18	70	57¼	80	56½	57 9/16	48	2 7/16	¾	¾
90	30½	31	31½	34	44	33½	49	39	15½	29¾	38⅞	28¾	17 1/16	47½	48	8½	20	78	65½	88	63½	64 9/16	51	2 7/16	⅞	¾
100	32½	32	35½	37	49	34½	50	43	18	31¾	42⅞	32¾	19 1/16	49½	50	8½	20	86	67½	93	68	68 9/16	60	2 11/16	⅞	¾

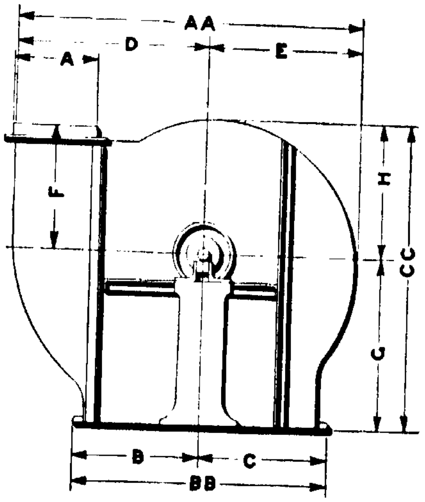
Note:—Sizes 30–70 inclusive have circular outlets; sizes 80–90–100 have rectangular outlets.

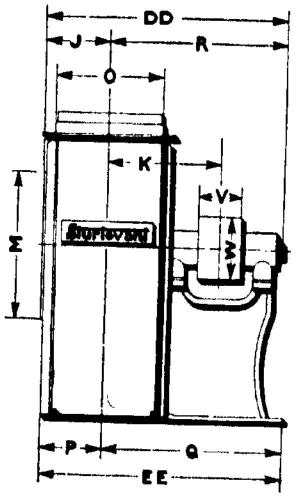
Single Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Wheel**





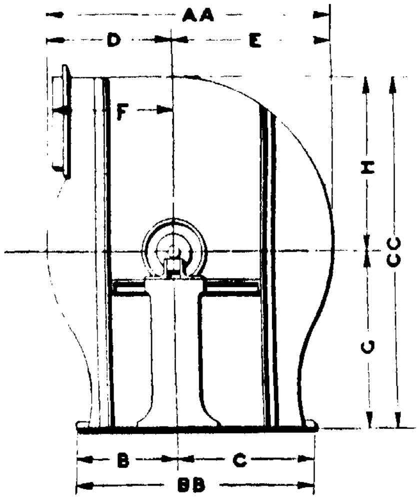
Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Hanger	Fan
0	11	12½	10½	16	13	13¼	16⅜	11½	8¼	12	11		6 7/16	20½	21	5	5¼	29	23	28⅛	29¼	26 15/16	18	1⅜	½	½
5	13	15	12½	18¾	15¼	16	19 9/16	13½	10⅛	14¼	13		7¼	24¼	21⅝	6	6	31	27½	33 1/16	31¾	31½	21	1½	½	½
0	14¾	17½	14½	22½	18½	18½	23¼	16½	10⅞	15⅜	15		8 3/16	26	26⅞	6¼	6¾	41	32	39¾	37¼	34 3/16	24	1 11/16	⅝	½
5	16⅞	19¼	16¼	25	21	21¼	25½	19	11½	17¼	17		9⅛	28½	29¾	7½	8	46	35½	44½	41¼	37⅞	27	1 15/16	¾	⅝
0	18¾	23½	20½	27	23	21	28⅛	21	12¾	19	19		10	31½	32¾	8½	8½	50	44	49⅛	45½	41½	30	1 15/16	¾	⅝
5	20½	24½	20¼	30	25	25	31¼	22½	11 5/16	21	21		10¾	34	36	9⅛	9½	55	45¼	53¾	50 5/16	44¾	33	2 3/16	¾	¾
0	22¾	26	22	33	27	26¼	33¼	24	11¼	20¼	27½		11¼	32¾	31½	6½	14	60	48	57¾	45¾	41	36	1 15/16	¾	¾
0	25¼	29½	24½	37¼	30¾	28¼	39¼	27¼	12¼	23½	30		13½	38¼	39	7½	16	68½	54	66½	51¼	51⅝	42	2 3/16	¾	¾
0	28½	31	31	43	35	30½	45	31	13½	26¼	34	21¾	15	42½	43	7½	18	78	62	76	56½	57½	48	2 7/16	¾	¾
0	30½	34½	34½	49	39	33½	45	34	15½	29¼	38⅞	28¾	17	47½	48	8½	20	88	69	79	63½	61½	54	2 7/16	¾	¾
0	32½	35½	35½	55	43	34½	50	37	18	31¼	42⅞	32¾	19½	49½	50	8½	20	98	71	87	68	69	60	2 11/16	¾	¾

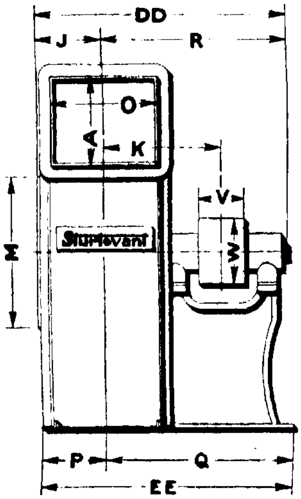
Note:—Sizes 30-70 inclusive have circular outlets; sizes 80-90-100 have rectangular outlets.

Single Inlet **Single Width**

Steel Plate Fan—Design 1

Full Housing **Top Horizontal Discharge** **Overhung Wheel**





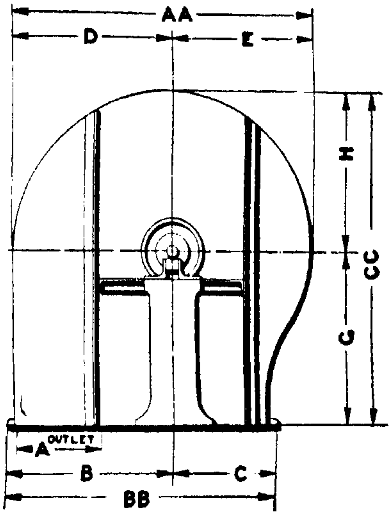
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
30	11	10½	12½	11½	14½	13¾	16⅝	16	8¼	12	11		6 3/16	20½	21	5	5¼	26	23	32⅝	29¼	26 13/16	18	1⅜	½	½
35	13	12½	15	13½	17	16	19 9/16	18¾	10¼	14¼	13		7¼	24¼	24⅝	6	6	30½	27½	38 5/16	34¾	31½	21	1½	½	½
40	14¾	14½	17½	16½	20½	18½	23¼	22½	10⅞	15⅜	15		8 3/16	26	26⅞	6¼	6¾	37	32	45¾	37¾	34 3/16	24	1 11/16	⅝	½
45	16⅞	16¼	19¼	19	23	21¼	25½	25	11½	17¼	17		9⅜	28¼	29¾	7½	8	42	35½	50½	41¼	37⅜	27	1 13/16	¾	⅝
50	18¾	20½	23½	21	25	24	28⅛	27	12¼	19	19		10	31½	32¼	8½	8½	46	44	55⅛	45½	41½	30	1 15/16	¾	⅝
55	20½	20¾	24¼	22½	27½	25	31¼	30	14 9/16	21	21		10¾	34	36	9⅛	9½	50	45	61¼	50 5/16	44¾	33	2 3/16	¾	¾
60	22¾	22	26	24	30	26¼	33¾	33	11¼	20⅞	27½		11½	32¾	34½	6½	14	54	48	66¾	45¾	44	36	1 15/16	¾	¾
70	25¾	24½	29½	27¼	31¼	28¾	39¼	37¾	12¾	23½	30		13½	38¼	39	7½	16	61½	54	77	51¾	51⅝	42	2 3/16	¾	¾
80	28½	31	31	31	39	30½	36½	43	13½	26¼	34	24¾	15⅛	42½	43	7½	18	70	62	79½	56½	57⅝	48	2 7/16	¾	¾
90	30½	34½	34½	34	44	33½	45	49	15½	29¾	38⅞	28¾	17⅛	47½	48	8½	20	78	69	94	63½	61⅝	54	2 7/16	¾	¾
100	32½	35½	35½	37	49	34½	50	55	18	31¾	42¾	32¾	19¼	49¼	50	8½	20	86	71	105	68	69	60	2 11/16	¾	¾

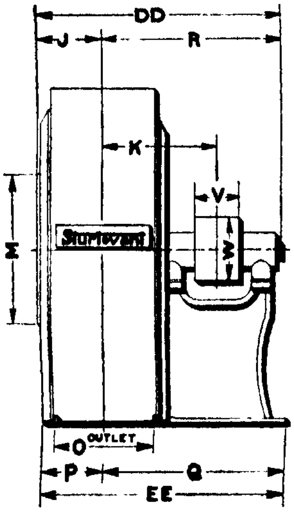
Note:—Sizes 30–70 inclusive have circular outlets; sizes 80–90–100 have rectangular outlets.

Single Inlet **Single Width**

Steel Plate Fan—Design 1

Full Housing **Down Blast Discharge** **Overhung Wheel**





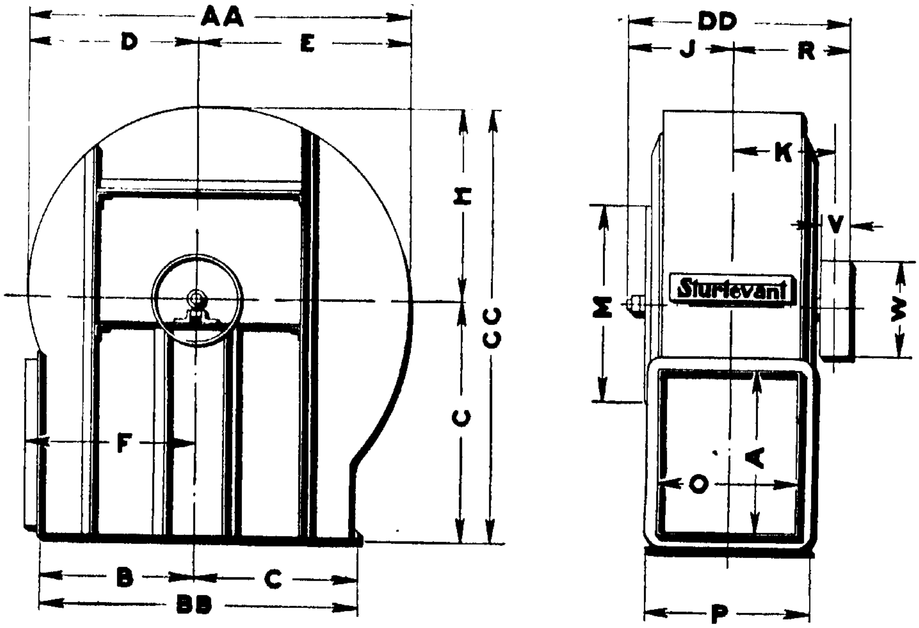
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts Hanger	Anchor Bolts Fan
30	11	17¾	11	16	13	16⅝	14½	8¼	12	11	8⅜	6¼	20½	21	5	5¼	29	28¾	31⅛	29¼	26⅞	18	1⅜	½	½
35	13	20⅝	13	18¾	15¼	19 9/16	17	10⅛	14¼	13	9⅝	7⅛	24¼	24⅝	6	6	34	33⅝	36 9/16	34¾	31⅝	21	1½	½	½
40	15	24½	16	22½	18½	23¼	20½	10⅞	15⅝	15	11	8	26	26⅞	6½	6¾	41	40½	43¾	37¾	34	24	1 11/16	⅝	½
45	17	27¼	18¼	25	21	25½	23	11½	17¼	17	12½	9	28¼	29⅜	7½	8	46	45½	48½	41¼	37½	27	1 13/16	¾	⅝
50	18	29¼	19¾	27	23	28⅛	25	12⅜	19	19	13⅞	9¾	31½	32¾	8½	8½	50	49	53⅛	45½	41¼	30	1 15/16	¾	⅝
55	20	32 5/16	21 15/16	30	25	31¼	27½	14 5/16	21	21	15¾	10¾	34	36	9⅜	9½	55	54⅛	58¾	50 5/16	44¾	33	2 3/16	¾	¾
60	22	35¾	23¾	33	27	33¾	30	11¼	20¾	27½	16¾	11¾	32¾	34½	6½	14	60	59½	63¾	45¼	44½	36	1 15/16	¾	¾
70	24	40 15/16	26¾	37¾	30¾	39¼	34¼	12¾	23½	30	19¾	13½	38⅛	39	7½	16	68½	67 9/16	73½	51¼	51⅜	42	2 3/16	¾	⅞
80	28	46½	31	43	35	36½	39	13½	26¼	34	23¼	15 1/16	42½	43	7½	18	78	77½	75½	56½	57 9/16	48	2 7/16	¾	¾
90	30	52½	34½	49	39	45	44	15½	29¾	38⅞	27⅛	17 1/16	47½	48	8½	20	88	87	89	63½	64 9/16	54	2 7/16	¾	¾
100	32	58½	35½	55	43	50	49	18	31¼	42¾	31	19 1/16	49¼	50	8½	20	98	94	99	68	68 9/16	60	2 11/16	⅞	¾

Single Inlet

Steel Plate Fan — Design 1

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



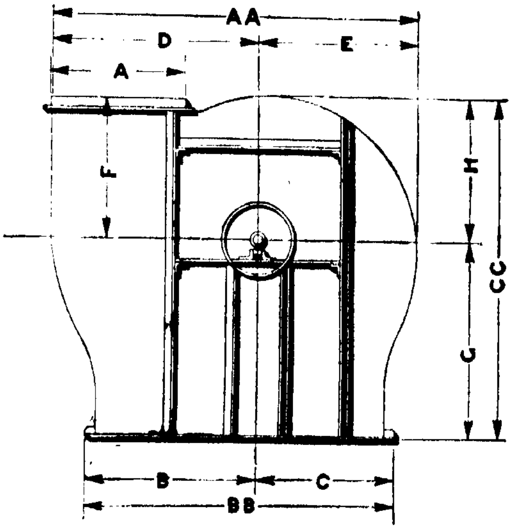
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia	Shaft Dia.	Anchor Bolts
60	22¾	20¼	25	24	30	25¾	33¾	27	18 9/16	18⅞	27½		22½	21 13/16	6½	14	54	45¾	60¾	40	36	1 15/16	¾
70	25¾	22¾	30¼	27½	34¼	28¾	39¼	30¾	20½	21⅜	30		27	25 1/16	7½	16	61½	53	68	45 9/16	42	2 3/16	¾
80	28½	28	29¼	31	39	30½	45	35	22¾	23½	34	24¾	30¼	27¼	7½	18	70	57¼	80	50⅛	48	2 7/16	¾
90	30½	31	34½	34	44	34¼	49	39	24¾	25¾	38⅞	28¾	34¼	30	8½	20	78	65½	88	54¾	54	2 7/16	¾
100	32½	32	35½	37	49	36⅛	53½	43	27	28	42⅝	32¾	38¼	32¼	8½	20	86	67½	96½	59¼	60	2 7/16	¾
110	36½	36	40½	40½	53½	40½	59	47	29	30¼	47	36¾	44	35	9½	22	94	76½	106	64	66	2 11/16	¾
120	42⅛	41	46	44	58	44½	63	51	33	34½	52¼	42⅞	51	39	9½	24	102	87	114	72	72	2 15/16	⅞
140	48⅝	44	49	50	68	47½	73½	59	36¼	38½	60½	48⅞	57	44¾	12½	28	118	83	132½	81	84	3 7/16	¾
160	54¾	53	59	57	77	56½	80	67	38	39¾	68½	48⅞	59	46	12½	30	134	112	147	84	96	3 15/16	⅞
180	60¾	60	66	65	87	64½	94	76	41	42¾	77	55	65	49	12½	36	152	126	170	90	108	3 15/16	⅞
200	72¾	70	84	72	96	75	104	84	44⅞	47	85½	61	71	53¼	12½	42	178	154	188	97⅝	120	4½	1
240	84¾	84	96	90	118	89	126	104	53	53½	102½	73	84	63¾	20½	48	208	180	230	116¾	144	5	1

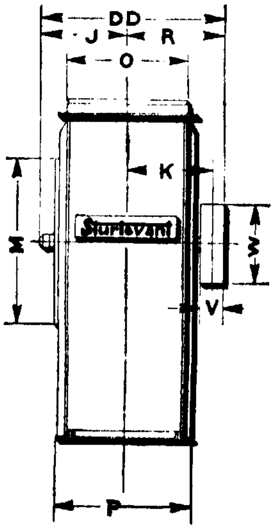
Single Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**





an ize	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Ia.	Anchor Bolts
50	18¾	23½	20½	27	23	20½	28¼	21	16¾	17⅛	21¼		20	19⅞	5½	12	50	44	49⅛	36⅞	30	1 11/16	⅝
60	22¼	26	22	33	27	22¼	33¾	24	18¼	18⅜	27½		22½	21⅝	6½	14	60	48	57¼	39 13/16	36	1 15/16	⅝
70	25¼	29½	24½	37¾	30¾	21¼	39¼	27¼	20½	21⅜	30		27	25 1/16	7½	16	68½	54	66½	45 9/16	42	2 3/16	¾
80	28¾	31	31	43	35	30½	45	31	22⅞	23½	34	24¾	30	27¼	7½	18	78	62	76	50⅛	48	2 7/16	¾
90	30¾	31½	34½	49	39	31¼	45	34	24¾	25⅞	38⅛	28¾	34	30⅛	8½	20	88	69	79	54⅞	54	2 7/16	¾
100	32¾	35½	35½	55	43	36⅛	50	37	26¾	27¾	42⅜	32¾	38	32⅛	8½	20	98	71	87	58⅞	60	2 7/16	¾
110	36¾	40½	40½	60	47	40½	54½	40½	29	30¼	47	36¾	44	35⅛	9½	22	107	81	95	64⅛	66	2 11/16	¾
120	42⅞	46	46	65	51	41½	63	44	33	34½	52¼	42⅞	51	39⅞	10½	24	116	92	107	72⅞	72	2 15/16	¾
140	48⅞	49	49	77	59	45½	73½	50	36¼	38½	60½	48⅞	57	44⅜	12½	28	136	98	123½	81 1/16	84	3 7/16	¾
160	51⅞	59	59	87	67	49½	80	57	38	39¾	68½	48⅞	58¼	46	12½	32	154	118	137	84 1/16	96	3 15/16	¾
180	61	73	63	98	76	57½	91	65	41	42¾	77	55	64¼	49	12½	36	174	136	156	90 1/16	108	3 15/16	¾
200	73	90	72	108	81	68½	100	72	41⅜	46	85½	61	70¾	52¼	12½	42	192	162	172	96⅞	120	4½	¾
220	79	100	76	118	91	73	111	81	48	49¾	94	67	76¾	57	14½	48	212	176	192	105	132	5	¾
240	85	110	86	128	104	81	122	90	51⅛	53½	102½	73	82¾	60⅜	14½	48	236⅛	192	212	111⅞	144	5	¾

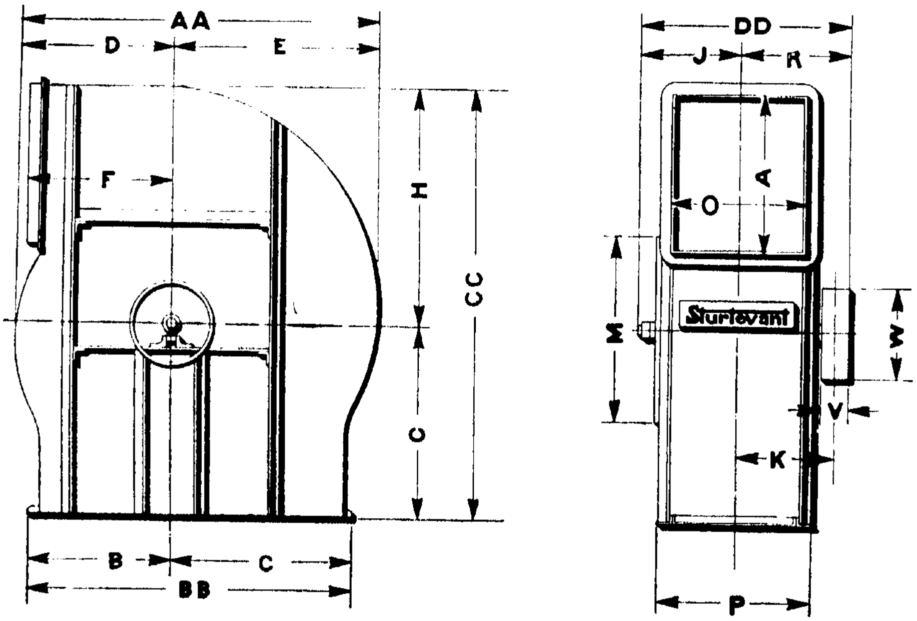
Note:—Sizes 50, 60 and 70 have circular outlets; Sixes 80 to 240 inclusive have rectangular outlets.

Single Inlet

Steel Plate Fan — Design 1

Single Width

Full Housing **Top Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts
50	18¾	18½	22	21	25	23½	28⅛	23	16¾	17⅛	21¼		20	19⅞	5½	12	46	40½	51⅛	36⅝	30	1 11/16	⅝
60	22¾	20¼	25	24	30	26¼	33¼	27	18 3/16	18⅞	27½		22½	21⅝	6½	14	54	45¼	60¼	39 11/16	36	1 13/16	⅝
70	25¾	22¾	30¼	27¼	31¼	28¾	39¼	30¾	20½	21⅜	30		27	25 1/16	7½	16	61½	53	70	45 9/16	42	2 3/16	¾
80	28¾	28	29¼	31	39	30½	45½	35	22⅞	23½	34	24¾	30	27¼	7½	18	70	57¼	80½	50⅛	48	2 7/16	¾
90	30¾	31¾	31½	34	41	31¼	51¾	39	24¼	25¾	38⅞	28¾	34	30⅛	8½	20	78	66¼	90½	54⅞	54	2 7/16	¾
100	32¾	33⅜	35½	37	49	36¼	57½	43	26¾	27¼	42⅜	32¼	38	32⅛	8½	20	86	69⅛	100½	58⅞	60	2 7/16	¾
110	36¾	38	40½	40½	53½	40½	63	47	29	30¼	47	36¾	41	35⅛	9½	22	94	78½	110	64⅛	66	2 11/16	¾
120	42⅞	38	46	41	58	41½	69	51	33	31½	52¼	42⅞	51	39⅞	10½	24	102	84	120	72⅞	72	2 13/16	¾
140	48⅞	42	49	50	68	45¼	81	59	36¼	38½	60½	48⅞	57	41¾	12½	28	118	91	140	81	84	3 7/16	¾
160	54⅞	46	59	57	77	49½	91	67	38	39¼	68½	48⅞	58¼	46	12½	32	134	105	158	81	96	3 15/16	¾
180	61	53	66	65	87	57½	102	76	44	42¼	77	55	64¼	49	12½	36	152	117	178	90	108	3 15/16	¾
200	73	64	81	72	96	68½	112	81	44½	46	85½	61	70¼	60¾	12½	42	168	118	196	105⅛	120	4½	¼
220	79	76	96	90	118	81	136	101	53	53½	102½	73	82¾	60¼	14½	48	208	172	240	111⅞	111	5	¾
240	85	68	90	81	107	73	121	91	48	49¼	91	67	76¼	57	14½	48	188	158	218	105	132	5	¾

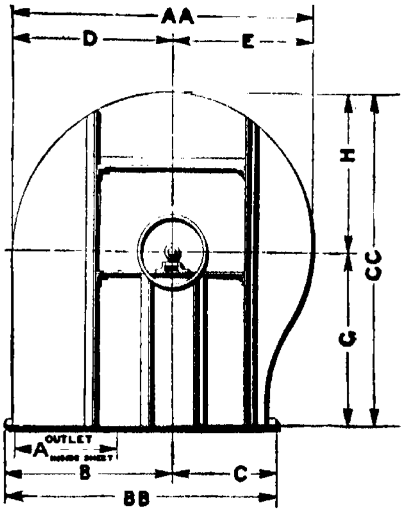
Sizes No. 50, 60, and 70 have circular outlets, sizes 80-240 inclusive have rectangular outlets

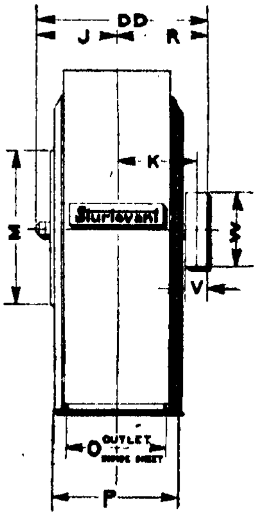
Single Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





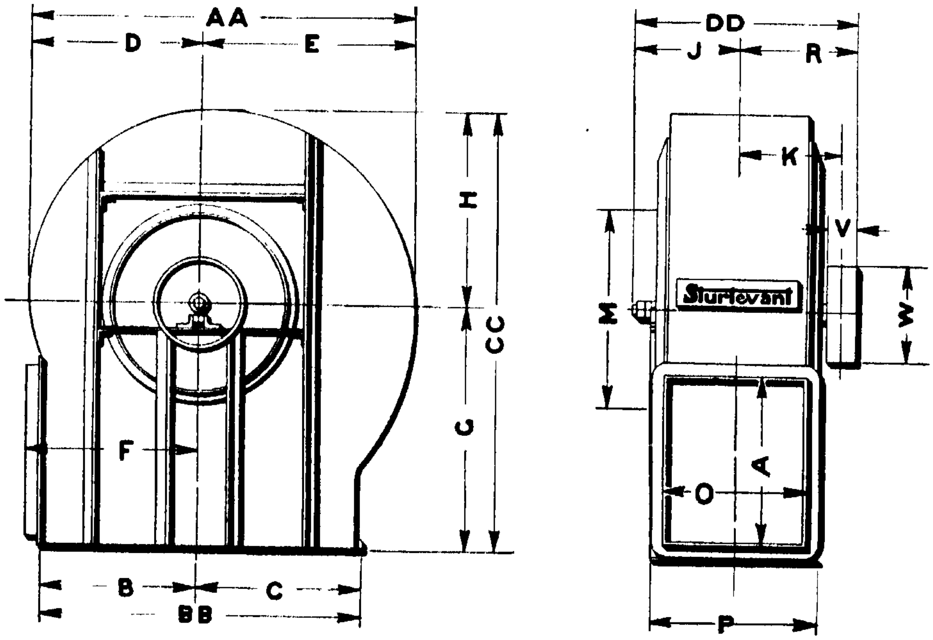
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts
60	22	36½	24½	33	27	33¾	30	18 3/16	18⅝	27½	18	22½	21 13/16	6½	14	60	61	63¾	40	36	1 15/16	¾
70	24	41¼	27¼	37¾	30¾	39¼	31¼	20½	21⅜	30	21	27	25 1/16	7½	16	68½	68½	73½	45 7/16	42	2 3/16	¾
80	28	46½	31	43	35	41¼	39	27⅞	23½	34	24	30¼	27¼	7½	18	78	77½	80¼	50¼	48	2 7/16	¾
90	30	52½	34½	49	39	41¼	44	24¼	25¾	38⅞	28	34¼	30	8½	20	88	87	85¼	54¾	54	2 7/16	¾
100	32	58½	35½	55	43	47	49	27	28	42¼	32	38½	32¼	8½	20	98	94	96	59¼	60	2 7/16	¾
110	36	61½	40½	60	47	51	53½	29	30¼	47	36	44	35	9½	22	107	105	104½	64	66	2 11/16	¾
120	42	70	46	65	51	55	58	33	31½	52¼	42	51	39	9½	24	116	116	113	72	72	2 15/16	¾
140	48	82	49	77	59	61	68	36¼	38½	60½	48	57	44¾	12½	28	136	131	132	81	84	3 7/16	¾
160	54	93	59	87	67	72	77	38	39¾	68½	48	59	46	12½	36	154	152	149	84	96	3 15/16	⅞
180	60	101	68	98	76	80	87	41	42¼	77	54	65	49	12½	36	174	172	167	90	108	3 15/16	⅞
200	72	113	72	108	84	88	96	41⅜	47	85½	60	71	53¼	12½	42	192	185	184	97¾	120	4½	1
240	81	137	81	132	101	108	118	53	53½	102½	72	84	63¼	20½	48	236	221	226	116¾	144	5	1

Double Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
50	18¾	18¼	22	21	25	20½	28⅛	23	16¾	17⅛	20¾		20	19⅞	5½	12	46	40⅛	51⅛	36⅝	30	1 11/16	⅝
60	22¾	20¼	25	24	30	22¾	33¾	27	18¼	18⅜	26⅞		22½	21⅝	6½	14	54	45¼	60¾	39⅞	36	1 15/16	⅝
70	25¾	22¾	30¼	27¼	34¼	24¾	39¾	30¾	20½	21¼	29⅜		27	25	7½	16	61½	53	70	45½	42	2 3/16	¾
80	28¾	28	29¼	31	39	30½	45½	35	22⅞	23½	33⅜	24¾	30	27¼	7½	18	70	57¼	80½	50⅛	48	2 7/16	¾
90	30¾	31¾	34½	34	44	34¾	51½	39	24¾	25¼	36¼	28¾	34	30⅛	8½	20	78	66¼	90½	54⅞	54	2 7/16	¾
100	32¾	33⅝	35½	37	49	36⅛	57½	43	26¼	27¾	40¼	32¾	38	32⅛	8½	20	86	69⅞	100½	58⅞	60	2 7/16	¾
110	36¾	38	40½	40½	53½	40½	63	47	29	30¼	45⅛	36¾	44	35⅛	9½	22	94	78½	110	64⅛	66	2 11/16	¾
120	42⅞	38	46	44	58	41½	69	51	33	34½	50	42⅞	51	39⅞	10½	24	102	84	120	72⅞	72	2 15/16	¾
140	48⅞	42	49	50	68	45½	81	59	36¼	38½	57⅞	48⅞	57	41¼	12½	28	118	91	140	81	81	3 7/16	¾
160	54⅞	46	59	57	77	49½	91	67	38	39¾	65¼	48⅞	58¾	46	12½	32	134	105	158	81	96	3 15/16	¾
180	61	53	66	65	87	57½	102	76	41	42¾	71½	55	61¼	49	12½	36	152	119	178	90	108	3 15/16	¾
200	73	61	84	72	96	68½	112	84	44⅞	46	82⅜	61	70¼	52¼	12½	42	168	148	196	96⅜	120	4½	¾
220	79	68	90	81	107	73	124	94	48	49¼	90⅝	67	76¾	57	11½	48	188	158	218	105	132	5	¾
240	85	76	96	90	118	81	136	101	51¼	53½	98⅞	73	82¾	60¾	14½	48	208	172	210	111⅞	144	5	¾

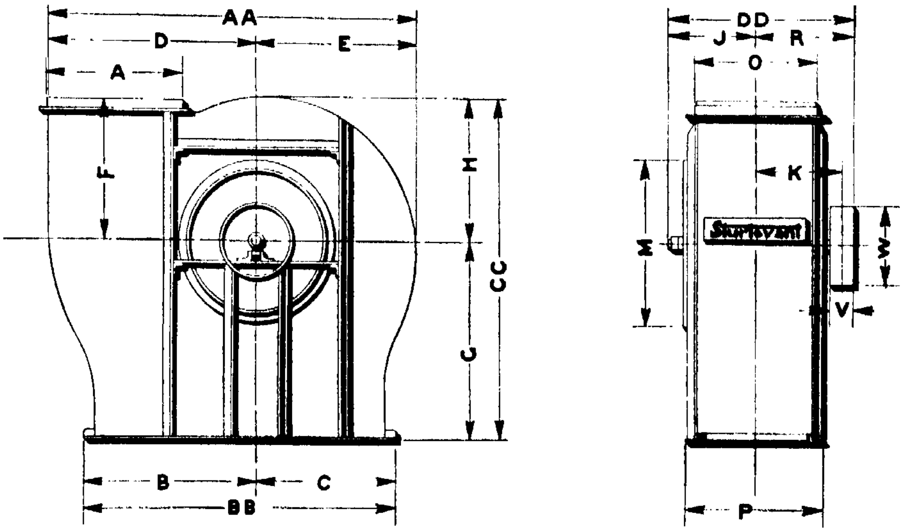
Note:—Sizes, 50, 60, and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

Double Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Pulley**



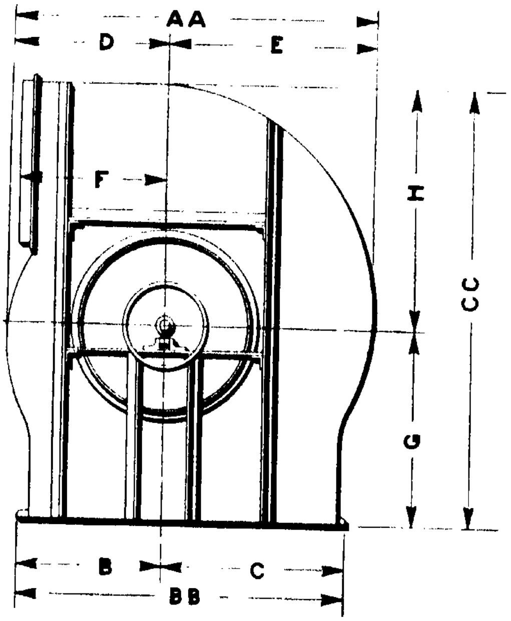
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts
50	18¾	23½	20½	27	23	20¼	28⅛	21	16¾	17⅛	20¾		20	19⅞	5½	12	50	44	49⅛	36⅝	30	1 11/16	⅝
60	22¾	26	22	33	27	22¾	33¾	21	18¼	18⅞	26⅞		22½	21⅝	6½	14	60	48	57¾	39⅞	36	1 15/16	⅝
70	25¾	29½	21½	37¾	30¾	24¾	39⅛	27½	20½	21¼	29⅛		27	25	7½	16	68½	54	66½	45½	42	2 3/16	¾
80	28¾	31	31	43	35	30½	45	31	22⅞	23½	33⅜	24¾	30	27⅝	7½	18	78	62	76	50½	48	2 7/16	¾
90	30¾	34½	34½	49	39	34¼	45	34	24¾	25¾	36¼	28¼	34	30⅛	8½	20	88	69	79	54⅞	54	2 7/16	¾
100	32¾	35½	35½	55	43	36⅛	50	37	26¼	27¾	40¼	32¾	38	32⅝	8½	20	98	71	87	58⅞	60	2 7/16	¾
110	36¾	40½	40½	60	47	40½	54½	40½	29	30¼	45⅛	36¾	44	35⅛	9½	22	107	81	95	64⅛	66	2 11/16	¾
120	42⅞	46	46	65	51	41½	63	44	33	34½	50	42⅞	51	39⅞	10½	24	116	92	107	72⅞	72	2 15/16	¾
140	48⅞	49	49	77	59	45½	73½	50	36¼	38½	57⅞	48⅞	57	44¾	12½	28	136	98	123½	81	84	3 7/16	¾
160	54⅞	59	59	87	67	49½	80	57	38	39¾	65¾	48⅞	58¾	46	12½	32	154	118	137	84	96	3 11/16	¾
180	61	73	63	98	76	57½	91	65	41	42¾	74½	55	64¾	49	12½	36	174	136	156	90	108	3 15/16	¾
200	73	90	72	108	84	68½	100	72	41⅜	46	82⅜	61	70¾	52¼	12½	42	192	162	172	96⅝	120	4½	¾
220	79	100	76	118	94	73	111	81	48	49¾	90⅞	67	76¾	57	14½	48	212	176	192	105	132	5	¾
240	85	110	86	128	104	81	122	90	51½	53½	98⅞	73	82¾	60⅜	14½	48	232	196	212	111⅞	144	5	¾

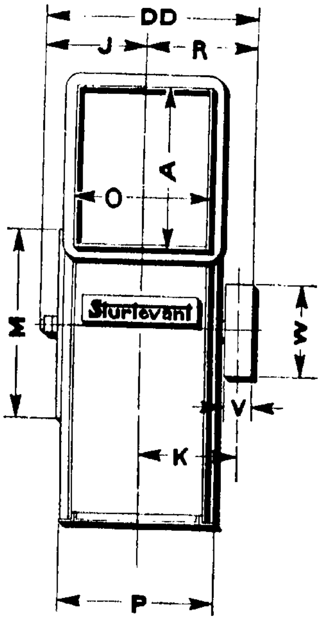
NOTE:—Sizes 50, 60 and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

Double Inlet | **Single Width**

Steel Plate Fan—Design 1

Full Housing | **Top Horizontal Discharge** | **Overhung Pulley**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
50	18¾	20½	23½	21	25	20½	28⅛	27	16¾	17¼	20¾		20	19⅞	5¼	12	46	44	55⅛	36⅜	30	1 11/16	⅜
60	22¼	22	26	24	30	22¾	33¼	33	18¼	18⅜	26⅞		22½	21⅞	6½	14	54	48	66¾	39⅞	36	1 15/16	⅝
70	25¾	24½	29½	27¼	34¼	24¾	39¼	37¾	20½	21¼	29⅜		27	25	7½	16	61¼	54	77	45½	42	2 3/16	¾
80	28¾	31	31	31	39	30½	36½	43	22⅞	23½	33⅞	24¾	30	27¼	7½	18	70	62	79½	50⅛	48	2 7/16	¾
90	30¾	34½	34½	34	44	34¼	45	49	21¾	25¾	36¼	28¾	34	30⅛	8½	20	78	69	94	54⅞	54	2 7/16	¾
100	32¾	35½	35½	37	49	36⅛	50	55	26¾	27¼	40¼	32¾	38	32⅛	8½	20	86	71	105	58⅞	60	2 7/16	¾
110	36¾	40½	40½	40½	53¼	40½	50½	60	29	30¼	45⅛	36¼	44	35⅛	9½	22	94	81	110½	64⅛	66	2 11/16	¾
120	42⅞	46	46	44	58	41½	55	65	33	34½	50	42⅞	51	39⅞	10½	24	102	92	120	72⅞	72	2 15/16	¾
140	48⅞	49	49	50	68	45½	64	77	36¼	38½	57⅞	48⅜	57	41¾	12½	28	118	98	141	81	84	3 7/16	¾
160	54⅞	57	63	57	77	49½	72	87	38	39¼	65¼	48⅞	58¾	46	12½	32	134	120	159	84	96	3 15/16	¾
180	61	63	73	65	87	57½	80	98	41	42¼	71½	55	64¾	49	12½	36	152	136	178	90	108	3 15/16	¾
200	73	66	84	72	96	68½	88	108	41⅜	46	82⅞	61	70¼	52¼	12½	42	168	150	196	96⅝	120	4½	¾
220	79	75	96	81	107	73	98	118	48	49¼	90⅞	67	76¾	57	11½	48	188	171	216	105	132	5	¾
240	85	84	102	90	118	81	108	128	51⅛	53½	98¼	73	82¾	60¾	14½	48	208	186	236	111¾	144	5	¾

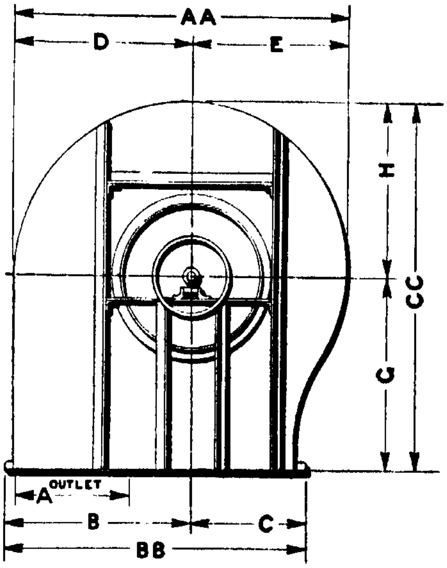
NOTE:—Sizes 50, 60, and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

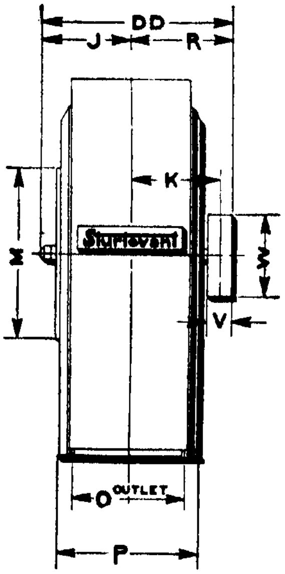
Double Inlet

Steel Plate Fan—Design 1

Single Width

Full Housing **Down Blast Discharge** **Overhung Pulley**





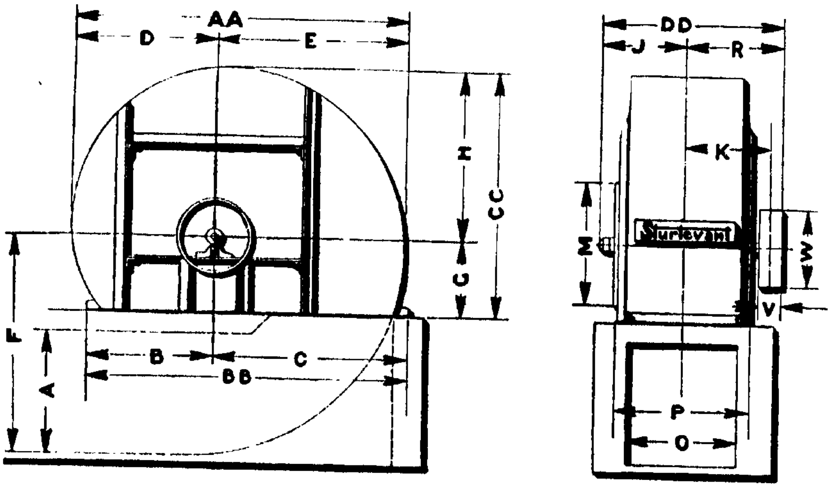
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
50	18	29	19¾	27	23	28½	25	16¾	17⅛	20¼		20	19⅞	5½	12	50	48¾	53⅛	36⅜	30	1 11/16	⅝
60	22	35½	23¼	33	27	33¾	30	18¼	18⅞	26⅞		22½	21⅝	6½	14	60	59¼	63⅞	39⅞	36	1 13/16	⅝
70	25	41¼	26¼	37¾	30¼	39¼	34	20½	21¼	29⅜		27	25	7½	16	68½	68	73¼	45½	42	2 3/16	¾
80	28	47½	31	43	35	36½	39	22⅞	23½	33⅞	24	30	27¼	7½	18	78	78½	75½	50⅛	48	2 7/16	¾
90	30	53½	31½	49	39	45	44	24¾	25¾	36¼	28	34	30⅛	8½	20	88	88	89	54⅞	54	2 7/16	¾
100	32	59½	35½	55	43	50	49	26⅝	27¾	40¼	32	38	32⅛	8½	20	98	95	99	58⅞	60	2 7/16	¾
110	36	61½	40½	60	47	50½	53½	29	30¾	45⅛	36	41	35⅛	9½	22	107	105	104	64⅛	66	2 11/16	¾
120	42	70	46	65	51	55	58	33	34½	50	42	51	39⅞	10½	24	116	116	113	72⅞	72	2 15/16	¾
140	48	82	49	77	59	64	68	36¼	38½	57⅞	48	57	44¾	12½	28	136	131	132	81	84	3 7/16	¾
160	54	93	59	87	67	72	77	38	39¼	65¼	48	58¾	46	12½	32	154	152	149	84	96	3 15/16	¾
180	60	104	68	98	76	80	87	41	42¼	74½	54	64¾	49	12½	36	174	172	167	90	108	3 15/16	¾
200	72	113	72	108	84	88	96	44⅞	46	82⅜	60	70¼	52¼	12½	42	192	185	184	96¾	120	4½	¾
220	78	124	76	120	94	98	107	48	49¼	90⅝	66	76¾	57	14½	48	214	200	205	105	132	5	⅞
240	84	138	86	132	104	108	118	51⅛	53½	98⅞	72	82¾	60¾	14½	48	236	224	226	118⅜	144	5	¾

Single Inlet

Steel Plate Fan—Design 1

Single Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**



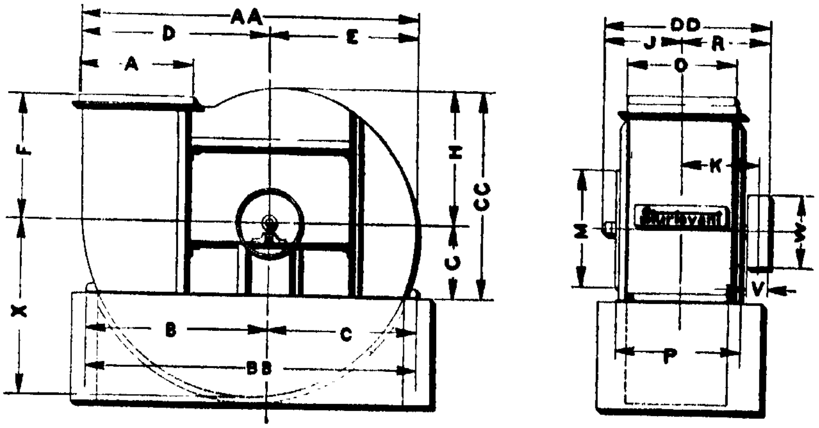
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts
80	28	30	40	31	39	47	15	35	22⅞	23½	31	24	29	27¼	7½	18	70	70	50	50⅛	48	$2\frac{7}{16}$	⅝
90	30	31	45	34	44	52	18	39	24⅞	25¾	38⅞	28	33	30	8½	20	78	76	57	51⅞	54	$2\frac{7}{16}$	⅝
100	32	32½	49½	37	49	56	20	43	26¾	27¾	42⅜	32	37	32	8½	20	86	82	63	58¼	60	$2\frac{7}{16}$	¾
110	36	37¾	55¼	40½	53½	60	20	47	29	30¼	47	36	43	35	9½	22	94	93	67	64	66	$2\frac{11}{16}$	¾
120	42	40¼	60¼	44	58	55	24	51	33	34½	52¼	42	51	39¾	10½	24	102	100½	75	72¾	72	$2\frac{15}{16}$	¾
140	48	44½	70½	50	68	78¼	26¼	59	36¼	38½	60½	48	57	44¼	12½	28	118	115	85¼	81	84	$3\frac{7}{16}$	¾
160	54	48½	78½	57	77	90¼	32¼	67	38	39¼	68½	48	57	46	12½	32	134	127	99¼	84	96	$3\frac{15}{16}$	¾
180	60	57	88½	65	87	100	36	76	41	42¾	77	54	64	49	12½	36	152	145½	112	90	108	$3\frac{15}{16}$	¾
200	72	62	96½	72	96	116	40	84	44¾	46	85½	60	70	52¼	12½	42	168	158½	124	96⅝	120	4½	¾
220	78	70¾	108½	81	107	127	44	94	47¾	49¾	94	66	78	57	14½	48	188	179¼	138	101¼	132	5	¾
240	84	80	119	90	118	134	46	104	51⅛	53½	102½	72	84	60¾	14½	48	208	199	150	111⅞	144	5	¾
260	90	84	128	97	127	142	50	112	51⅝	56½	111½	78	90	63¾	14½	54	224	212	162	117⅞	156	5	¾
280	96	90	136	104	136	155	54	120	65	66	120	84	96	73¼	14½	54	240	220	171	138¼	168	6	¾
300	102	99	146	112	146	165	58	129	68	70	128½	90	102	78¼	16½	60	258	245	187	146¼	180	7	¾
320	108	126	152	120	156	174	62	138	78		136½	96	108		16½	72	276	278	200		192	7	⅞
340	114	120	168	128	166	185	66	147	84		145	102	114				294	288	213		204	7	⅞
360	120	128	184	136	176	196	70	156	84		153½	108	120				312	312	226		216	8	⅞
400	132	156	216	152	196	218	78	174	90		170½	120	132				348	372	252		240	8	⅞

Single Inlet

Steel Plate Fan — Design 1

Single Width

¾ Housing | **Up Blast Discharge** | **Overhung Pulley**



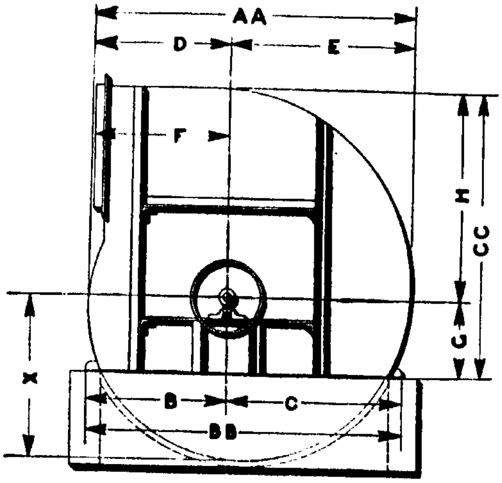
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
80	27¾	45	38¼	43	35	30½	15	31	22⅞	23 7/16	34	24¼	33	27¼	7½	18	39	78	83¼	46	50⅛	48	2 7/16	⅝
90	30¾	50¼	41¼	49	39	34¼	18	34	24¾	25 13/16	38⅞	28¼	37	30⅛	20	44	8	88	92	52	54⅞	54	2 7/16	⅝
100	32¾	55½	45½	55	43	36⅞	20	37	26¾	27 13/16	42⅞	32¼	41	32⅝	8½	20	49	98	101	57	58⅞	60	2 7/16	¾
110	36¾	60¼	49¼	60	47	40½	20	40½	29	30 9/16	47	36¼	45	35⅛	9½	22	53	107	110½	60½	61⅛	66	2 11/16	¾
120	42⅞	64½	52¼	65	51	44½	24	44	33	34 9/16	52¼	42⅞	51	39⅞	10½	24	58	116	117¼	68	72⅞	72	2 15/16	¾
140	48⅞	78	62½	77	59	45½	26¼	50	36 9/16	38½	60½	48⅞	60	44¾	12½	28	68	136	140½	76¼	81 1/16	84	3 7/16	¾
160	54⅞	86	69¼	87	67	49½	32 3/16	57	38 7/16	39¾	68½	48⅞	60	46	12½	32	77	154	155¼	89 1/16	84 1/16	96	3 15/16	¾
180	61	96	77½	98	76	57½	36	65	41 1/16	42¾	77	55	66	49	12½	36	87	174	173½	101	90 1/16	108	3 15/16	¾
200	73	105	85	108	84	68½	40	72	44⅞	46	85½	61	72	52¼	12½	42	96	192	190	112	96⅞	120	4½	¾
220	79	116	94½	120	94	73	44	81	48	49¾	94	67	78	57	14½	48	107	214	210½	125	105	122	5	¾
240	85	128	104½	132	104	81	46	90	51⅛	53½	102½	73	84	60¾	14½	48	118	236	232½	136	111⅞	144	5	¾
260	91	137	111¼	142	112	86	50	97	54¼	56½	111½	79	90	63¾	14½	54	127	254	248¼	147	118	156	5	¾
280	97	146	119	152	120	92	54	104	68¾	72¾	120	85	96	80	14½	54	136	272	265	158	148¼	168	6	⅞
300	103	156	127½	163	129	96	58	112	77½	82¼	128½	91	102	91	16½	60	146	292	283½	170	168½	180	7	⅞
320	109¼	166	133½	171	138	110	62	120	80½	85¾	136½	97¼	108	94	16½	72	156	312	299½	182	174½	192	8	1
340	115¼	176	141	185	147	114	66	128	83½		145½	103¼	114				166	332	320	194		204	8	1
360	121¼	186	152½	196	156	120	70	136	86½		153½	109¼	120				176	352	338½	206		216	8	1
400	133¼	206	169	218	174	132	78	152	92½		170½	121¼	132				196	392	375	230		240	8	1

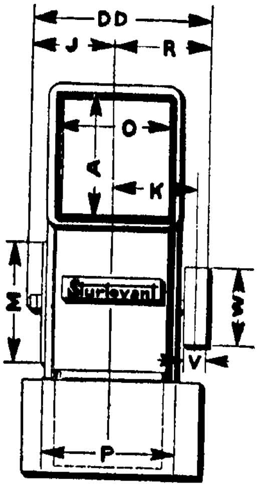
Single Inlet

Steel Plate Fan—Design 1

Single Width

¾ Housing **Top Horizontal Discharge** **Overhung Pulley**





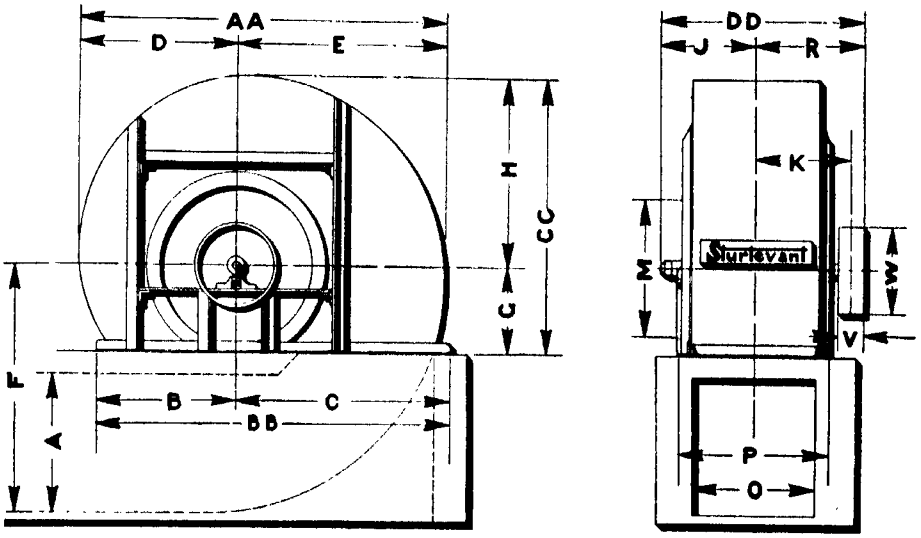
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia	Anchor Bolts
80	28¼	31	40¾	31	39	30½	15	43	22⅞	23½	34	24¾	33	27¼	7½	18	35	70	71¼	58	50⅛	48	2 7/16	⅝
90	30¾	36½	41¼	34	44	34¼	18	49	24¼	25¾	38⅞	28¾	37	30⅛	8½	20	39	78	81¼	67	54⅞	54	2 7/16	⅝
100	32¾	39	49	37	49	36⅛	20	55	26¾	27¾	42⅜	32¾	41	32⅛	8½	20	43	86	88	75	58⅞	60	2 7/16	¾
110	36¾	42⅞	53¼	40½	53½	40½	20	60	29	30¼	47	36¾	45	35⅛	9½	22	47	94	96½	80	64⅛	66	2 11/16	¾
120	42⅞	45¼	56¼	44	58	41½	21	65	33	34½	52¼	42⅞	51	39⅞	10½	24	51	102	102	89	72⅞	72	2 15/16	¾
140	48⅞	53	68¼	50	68	45½	26¼	77	36¼	38½	60½	48⅞	60	44¾	12½	28	59	118	121¼	103¼	81	84	3 7/16	¾
160	51⅞	58½	75	57	77	49½	32¼	87	38	39¾	68½	48⅞	60	46	12½	32	67	134	133½	119¼	84	96	3 15/16	¾
180	61	66	81	65	87	57½	36	98	41	42¾	77	55	66	49	12½	36	76	152	150	134	90	108	3 15/16	¾
200	73	72	91¼	72	96	68½	40	108	41⅞	46	85½	61	72	52¼	12½	42	84	168	163¾	148	96⅞	120	4½	¾
220	79	80½	101½	81	107	73	44	120	48	49¾	94	67	78	57	14½	48	91	188	182	164	105	132	5	¾
240	85	89½	112¼	90	118	81	46	132	51¼	53½	102½	73	84	60¾	14½	48	101	208	202¼	178	111⅞	144	5	¾
260	91	95¼	120½	97	127	86	50	142	54¼	56½	111½	79	90	63¾	14½	54	112	224	216¼	192	118	156	5	¾
280	97	102	128¼	101	136	92	54	152	68¼	72¼	120	85	96	80	14½	54	120	240	230¼	206	148¼	168	6	⅞
300	103	109¼	137	112	146	96	58	163	77½	82¾	128½	91	102	91	16½	60	129	258	246¼	221	168½	180	7	⅞
320	109¼	116½	146	120	156	110	62	171	80½	85¼	136½	97¼	108	94	16½	72	138	276	262½	236	171½	192	8	1
340	115¼	122½	154¼	128	166	114	66	185	83½		145½	103¼	111				147	294	277¼	251		204	8	1
360	121¼	131	163¼	136	176	120	70	196	86½		153½	109¼	120				156	312	291¼	266		216	8	1
400	133¼	145	181	152	196	132	78	218	92½		170½	121¼	132				174	348	326	296		240	8	1

Double Inlet

Steel Plate Fan—Design 1

Single Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**



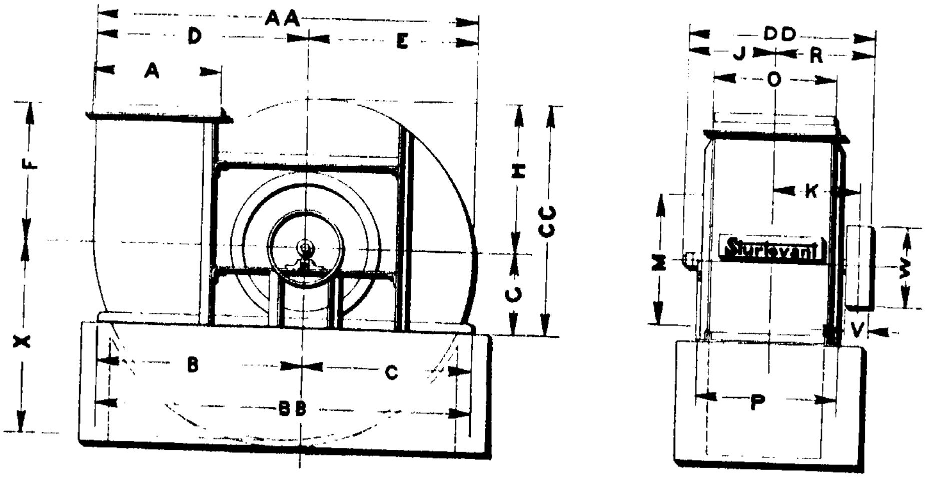
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
80	28	32	42½	31	39	47	15	35	22⅞	23½	31½	24	33	27¼	7⅛	18	70	74½	50	50⅛	48	2 7/16	⅝
90	30	33¼	46¾	34	44	52	18	39	24¼	25¾	36¼	28	37	30⅛	8⅛	20	78	80	57	54⅞	54	2 7/16	⅝
100	32	35	51¾	37	49	56	20	43	26¾	27¾	40¼	32	41	32⅛	8⅛	20	86	86¾	63	58⅞	60	2 7/16	¾
110	36	39	56½	40½	53½	60	20	47	29	30¼	45¼	36	45	35⅛	9⅛	22	94	95½	67	64¼	66	2 11/16	¾
120	42	40¼	60	44	58	70	24	51	33	34½	50	42	51	39⅞	10⅛	24	102	100¾	75	72⅞	72	2 15/16	¾
140	48	47½	71¼	50	68	78¼	26¼	59	36¼	38½	57⅞	48	60	44¾	12½	28	118	119¼	85¼	81	84	3 7/16	¾
160	54	51	79¾	57	77	90¼	32¼	67	38	39¾	65¾	48	60	46	12½	32	134	130¾	99¼	84	96	3 15/16	¾
180	60	57¼	89¼	65	87	100	36	76	41	42¾	74½	54	66	49	12½	36	152	147	112	90	108	3 15/16	¾
200	72	63	97½	72	96	116	40	84	44⅜	46	82¾	60	72	52¼	12½	42	168	160½	124	96⅜	120	4½	¾
220	78	70¼	108	81	107	126	44	94	48	49¼	90⅜	66	78	57	14½	48	188	178¼	138	105	132	5	¾
240	84	80	119	90	118	134	46	104	51⅛	53½	98⅞	72	84	60¾	14½	48	208	199	150	111⅞	144	5	¾
260	90	85¼	127½	97	127	114	50	112	54¼	56½	107½	78	90	63¾	14½	54	224	212¾	162	118	156	5	¾
280	96	90½	136	104	136	156	54	120	68¼	72¾	116	84	96	80	14½	54	240	226½	174	148¼	168	6	⅞
300	102	97	145¼	112	146	166	58	129	77½	82¾	124	90	102	91	16½	60	258	242¼	187	168½	180	7	⅞
320	108	103½	154½	120	156	176	62	138	80½	85¾	132	96	108	94	16½	72	276	258	200	174½	192	8	1
340	114	110¼	164	128	166	186	66	147	83½		140½	102	114				294	274¼	213		204	8	1
360	120	116½	173½	136	176	196	70	156	86½		148½	108	120				312	290	226		216	8	1
400	132	129½	193	152	196	216	78	174	92½		164½	120	132				348	322½	252		240	8	1

Double Inlet

Steel Plate Fan—Design 1

Single Width

¾ Housing **Up Blast Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts
80	28¾	45	38¼	43	35	30½	15	31	22¼	23½	31½	21¾	33	27¼	7½	18	39	78	83¼	46	50⅛	48	2 7/16	⅝
90	30¾	50¼	41¼	49	39	34¼	18	34	24¾	25¼	36¼	28¾	37	30⅛	8½	20	44	88	92	52	54⅞	54	2 7/16	⅝
100	32¾	55½	45½	55	43	36⅛	20	37	26¾	27¾	40¼	32¼	41	32⅛	8½	20	49	98	101	57	58⅞	60	2 7/16	¾
110	36¾	60¼	49¾	60	47	40½	20	40½	29	30¼	45⅛	36¾	45	35⅛	9½	22	53½	107	110½	60½	64⅛	66	2 11/16	¾
120	42⅞	64½	52¼	65	51	41½	24	44	33	34½	50	42⅞	51	39⅞	10½	24	58	116	117¼	68	72⅞	72	2 15/16	¾
140	48⅞	78	62½	77	59	45½	26¼	50	36¼	38½	57⅞	48⅞	60	44¾	12½	28	68	136	140½	76¼	81	84	3 7/16	¾
160	54⅞	86	69¼	87	67	49¼	32¼	57	38	39¼	65¾	48⅞	60	46	12½	32	77	154	155¼	89¼	84	96	3 15/16	¾
180	61	96	77½	98	76	57⅛	36	65	41	42¾	74½	55	66	49	12½	36	87	174	173½	101	90	108	3 15/16	¾
200	73	105	85	108	81	68½	40	72	44⅜	46	82⅜	61	72	52½	12½	42	96	192	190	112	96⅝	120	4½	¾
220	79	116	94½	120	91	73	44	81	48	49¾	90⅜	67	78	57	14½	48	107	214	210½	125	105	132	5	¾
240	85	128	104½	132	101	81	46	90	51⅛	53½	98⅞	73	84	60¾	14½	48	118	236	232½	136	111⅞	144	5	¾
260	91	137	111¾	142	142	86	50	97	54¼	56½	107½	79	90	63¾	14½	54	127	254	248¾	147	118	156	5	¾
280	97	146	119	152	120	92	54	104	68¼	72¾	116	85	96	80	14½	54	136	272	265	158	148¼	168	6	¾
300	103	156	127½	163	129	96	58	112	77½	82¾	124	91	102	91	16½	60	146	292	283½	170	168½	180	7	⅞
320	109¼	166	133½	174	138	110	62	120	80½	85¾	132	97¼	108	94	16½	72	156	312	299½	182	174½	192	8	⅞
340	115¼	176	144	185	147	114	66	128	83⅛		140½	103¼	114				166	332	320	194		204	8	1
360	121¼	186	152½	196	156	120	70	136	86½		148½	109¼	120				176	352	338½	206		216	8	1
400	133¼	206	169	218	174	132	78	152	92½		164½	121¼	132				196	392	375	230		240	8	1

Double Inlet

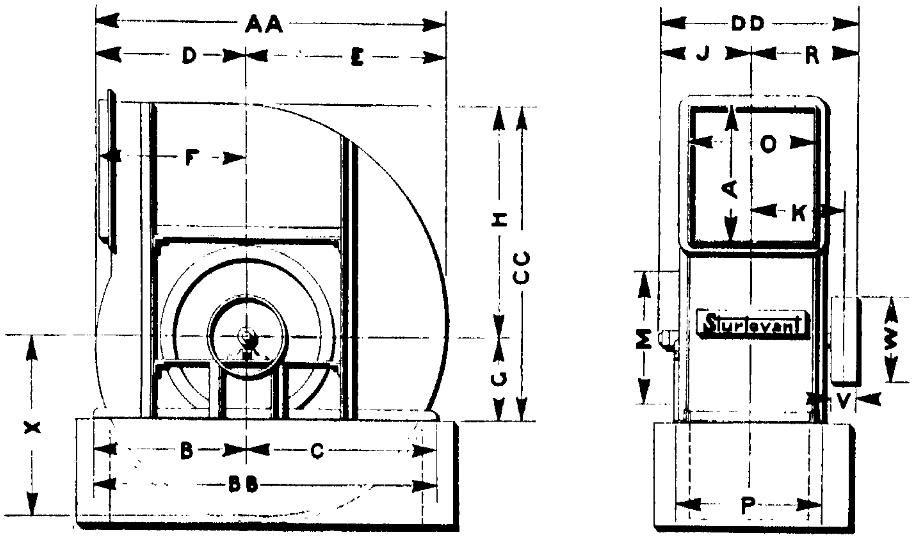
Steel Plate Fan—Design 1

Single Width

¾ Housing

Top Horizontal Discharge

Overhung Pulley

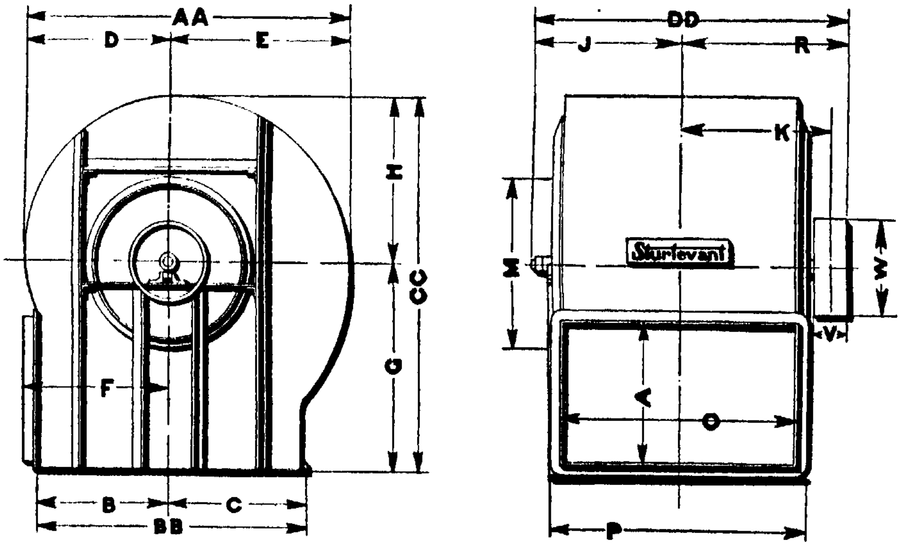


Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Extreme Wheel Dia.	Shaft Dia.	Anchor Bolts
80	28¾	34	40¼	31	39	30½	15	43	22⅞	23½	31½	24¾	33	27¼	7½	18	35	70	74¾	58	50⅞	48	2 7/16	⅝
90	30¾	36½	44¼	34	41	34¼	18	49	24¾	25¼	36¼	28¾	37	30⅛	8½	20	39	78	81¼	67	54⅞	54	2 7/16	⅝
100	32¾	39	49	37	49	36⅛	20	55	26¾	27¼	40¼	32¾	41	32⅛	8½	20	43	86	88	75	58⅞	60	2 7/16	¾
110	36¼	42¾	53¾	40½	53½	40½	20	60	29	30¼	45⅛	36¾	45	35⅛	9½	22	47	94	96½	80	64⅛	66	2 11/16	¾
120	42⅞	45¼	56¼	44	58	41½	24	65	33	34½	50	42⅞	51	39¾	10½	24	51	102	102	89	72⅞	72	2 15/16	¾
140	48⅞	53	68¼	50	68	45½	26¼	77	36¼	38½	57⅞	48⅞	60	44¾	12½	28	59	118	121¼	103¼	81	84	3 7/16	¾
160	54⅞	58½	75	57	77	49½	32¼	87	38	39¾	65¾	48⅞	60	46	12½	32	67	134	133½	119¼	84	96	3 15/16	¾
180	61	66	84	65	87	57½	36	98	41	42¾	74½	55	66	49	12½	36	76	152	150	134	90	108	3 15/16	¾
200	73	72	91¼	72	96	68½	40	108	44⅜	46	82⅜	61	72	52¼	12½	42	84	168	163¾	148	96⅝	120	4½	¾
220	79	80½	101½	81	107	73	44	120	48	49¾	90⅝	67	78	57	14½	48	94	188	182	164	105	132	5	¾
240	85	89½	112¼	90	118	81	46	132	51⅛	53½	98⅞	73	84	60¾	14½	48	104	208	202¼	178	111⅞	144	5	¾
260	91	95¼	120½	97	127	86	50	112	54¾	56½	107½	79	90	63¾	14½	51	112	221	216¼	192	118	156	5	¾
280	97	102	128¼	104	136	92	54	152	68¼	72¾	116	85	96	80	14½	54	120	240	230¼	206	148¼	168	6	⅞
300	103	109¼	137	112	146	96	58	163	77½	82¼	121	91	102	91	16½	60	129	258	246¼	221	168¼	180	7	⅞
320	109¼	116½	146	120	156	110	62	171	80½	85¼	132	97¼	108	94	16½	72	138	276	262½	236	174½	192	8	1
340	115¼	122½	151¼	128	166	114	66	185	83½		140½	103¼	114				147	294	277¼	251		204	8	1
360	121¼	131	163¼	136	176	120	70	196	86½		148½	109¼	120				156	312	294¼	266		216	8	1
400	133¼	145	181	152	196	132	78	218	92½		164½	121¼	132				174	348	326	296		240	8	1

Double Inlet **Double Width**

Steel Plate Fan—Design 1

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
50	18¾	18½	22	21	25	20½	28⅛	23	26	28 1/16	20¾	30⅜	34	33 5/16	10½	10	46	40½	51⅛	59 5/16	30	2 3/16	½
60	22¼	20¾	25	24	30	22¾	33¾	27	29	30 11/16	26⅞	36⅜	41	35 7/16	9½	14	54	45¼	60¾	61 7/16	36	2 7/16	⅝
70	25¾	22¾	30¼	27¼	34¼	24¼	39¼	30¾	33¼	35 5/16	29⅞	42¾	49	40 9/16	10½	16	61½	53	70	73 13/16	42	2 7/16	¾
80	28¾	28	29¼	31	39	30½	45½	35	36¼	38½	33⅞	48¾	57	43¾	10½	18	70	57¼	80½	80	48	2 15/16	¾
90	30¾	31¾	34½	34	44	34¼	51½	39	41½	43½	36¼	56¾	65	49½	12½	20	78	66¼	90½	91	54	2 15/16	¾
100	32⅝	33⅝	35½	37	49	*36¼	57½	43	46½	48	40¼	64¾	73	54¼	12½	20	86	69⅛	100½	100¾	60	2 15/16	¾
110	36¾	38	40½	40½	53½	40½	63	47	51¼	52¾	45⅝	72¾	81	59	12½	22	94	78½	110	110¼	66	3 7/16	¾
120	42⅜	38	46	44	58	41½	69	51	57¼	59½	50	84⅞	93	66¾	14½	24	102	84	120	124	72	3 7/16	¾
140	48⅞	42	49	50	68	45½	81	59	74¼	80¾	57⅞	96⅞	108	89	16½	28	118	91	140	163¾	84	3 15/16	¾
160	54⅛	46	59	57	77	49½	91	67	71¾	80¾	65¾	96⅞	108	89	16½	32	134	105	158	163¾	96	4½	¾
180	61	53	66	65	87	57½	102	76	87¼	94	74½	109	120	103¼	18½	36	152	119	178	190½	108	5	¾
200	73	64	84	72	96	68½	112	84	93½	100	82⅝	121	132	109¼	18½	42	168	148	196	202½	120	5½	¾

Double Inlet

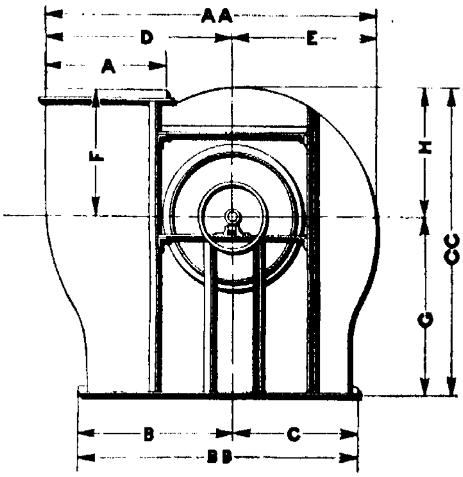
Steel Plate Fan—Design 1

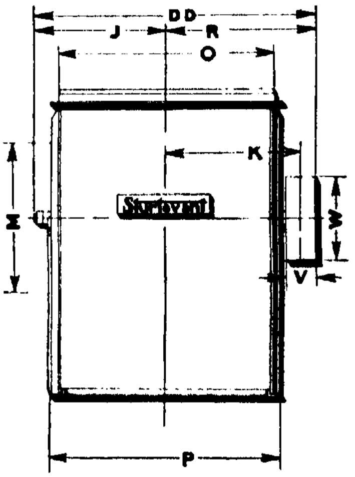
Double Width

Full Housing

Up Blast Discharge

Overhung Pulley

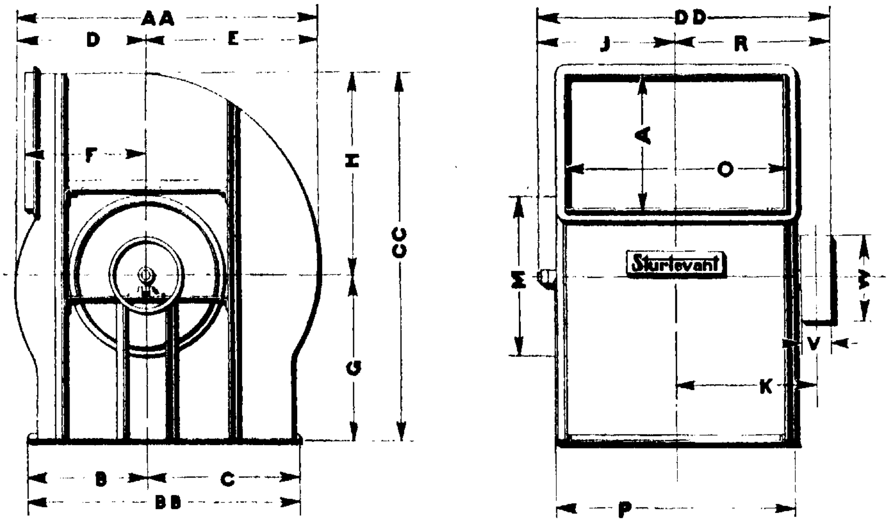




Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Dia.	Shaft Diameter	Anchor Bolts
50	18¾	23½	20½	27	23	20½	28⅛	21	26	28 5/16	20¾	30⅞	34	33 3/16	10½	10	50	44	49⅛	59 5/16	30	2 3/16	⅝
60	22¼	26	22	33	27	22¾	33¾	24	29	30 11/16	26⅛	36¾	41	35 3/16	10½	14	60	48	57½	64 7/16	36	2 7/16	⅝
70	25¾	29½	24½	37⅞	30⅞	24¾	39¼	27¼	33¼	35 5/16	29⅜	42¾	49	40 9/16	10½	16	68½	54	66½	73 13/16	42	2 7/16	¾
80	28¾	31	31	43	35	30½	45	31	36¼	38½	33⅝	48¾	57	43⅝	10½	18	78	62	76	80	48	2 11/16	¾
90	30¾	34½	34½	49	39	34¼	45	34	41½	43¼	36¼	56¾	65	49⅝	12½	20	88	69	79	91	54	2 15/16	¾
100	32¾	35½	35½	55	43	36⅜	50	37	46⅝	48	40¼	64½	73	54¼	12½	20	98	71	87	100¼	60	2 15/16	¾
110	36¼	40½	40½	60	47	40½	54½	40½	51¼	52¾	45⅛	72⅝	81	59	12½	22	107	81	95	110¼	66	3 7/16	⅞
120	42⅞	46	46	65	51	41½	63	44	57¼	59½	50	84⅞	93	66⅜	14½	24	116	92	107	124	72	3 7/16	⅞
140	48⅞	49	49	77	59	45½	73½	50	74¾	80¾	57⅞	96⅞	108	89	16½	28	136	98	123½	163¾	84	3 15/16	⅞
160	54⅞	59	59	87	67	49½	80	57	74¾	80¾	65¾	96⅞	108	89	16½	32	154	118	137	163¾	96	4½	⅞
180	61	73	63	98	76	57½	91	65	87¼	94	74½	109	120	103¼	18½	36	174	136	156	190½	108	5	⅞
200	73	90	72	108	84	68½	100	72	93¼	100	82⅝	121	132	109¼	18½	42	192	162	172	202½	120	5½	⅞

Double Inlet # Steel Plate Fan—Design 1 **Double Width**

Full Housing **Top Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	Anchor Bolts
50	18¾	20½	23½	21	25	20½	28¼	27	26	28 5/16	20¾	30⅝	34	33 5/16	10½	10	46	44	55¼	59 5/16	30	2 3/16	⅝
60	22¾	22	26	24	30	22¼	33¼	33	29	30 11/16	26⅞	36¾	41	35 7/16	10½	14	54	48	66¼	64 7/16	36	2 7/16	⅝
70	25¾	24½	29½	27¼	34¼	24¼	39¾	37¼	33¼	35 5/16	29⅜	42¾	49	40 9/16	10½	16	61½	54	77	73 13/16	42	2 7/16	¾
80	28¾	31	31	31	39	30½	36½	43	36¼	38½	33⅜	48¾	57	43¾	10½	18	70	62	79½	80	48	2 11/16	¾
90	30¾	34½	34½	34	44	34¾	45	49	41½	43¼	36¼	56¾	65	49½	12½	20	78	69	94	91	54	2 15/16	¾
100	32¾	35½	35½	37	49	36¼	50	55	46½	48	40¼	64¾	73	54¼	12½	20	86	71	105	100¾	60	2 15/16	¾
110	36¾	40½	40½	40½	53½	40½	50½	60	51¼	52¾	45⅝	72¾	81	59	12½	22	94	81	110½	110¼	66	3 7/16	¾
120	42⅞	46	46	44	58	44½	55	65	57¼	59½	50	81⅞	93	66¾	14½	24	102	92	120	124	72	3 7/16	¾
140	48⅞	49	49	50	68	45½	64	77	74¼	80¾	57¼	96⅞	108	89	16½	28	118	98	141	163¼	84	3 15/16	¾
160	54⅞	57	63	57	77	49½	72	87	74¼	80¾	65¼	96⅞	108	89	16½	32	134	120	159	163¼	96	4½	¾
180	61	63	73	65	87	57½	80	98	87¼	91	71½	109	120	103¼	18½	36	152	136	178	190½	108	5	¾
200	73	66	84	72	96	68½	88	108	93¼	100	82⅞	121	132	109¼	18½	42	168	150	196	202½	120	5½	¾

Double Inlet

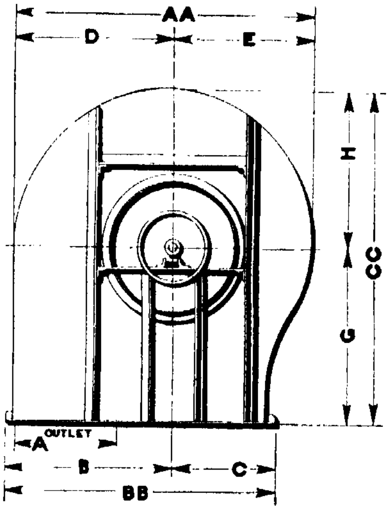
Steel Plate Fan—Design 1

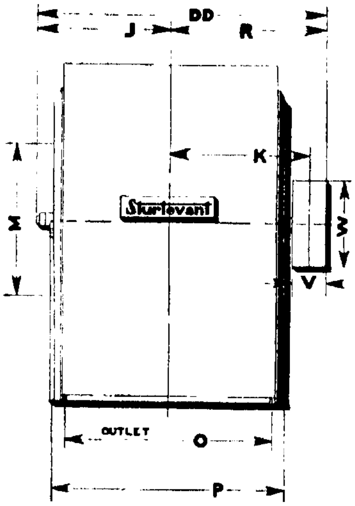
Double Width

Full Housing

Down Blast Discharge

Overhung Pulley





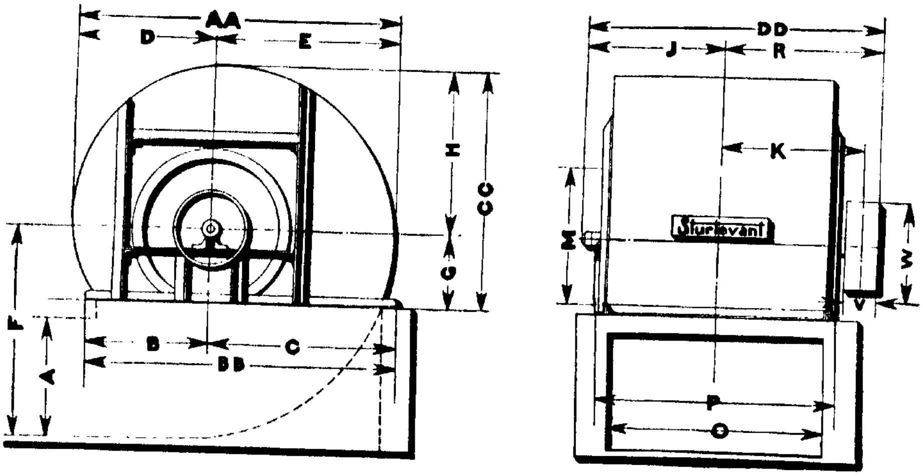
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	Anchor Bolts
50	18	29	19¼	27	23	28⅛	25	26	28 1/16	20¼	30⅝	34	33 5/16	10½	10	50	48¾	53⅛	59 5/16	30	2 3/16	⅝
60	22	35½	23¾	33	27	33¾	30	29	30 11/16	26⅞	36¼	41	35 7/16	10½	14	60	59¾	63¼	64 7/16	36	2 7/16	⅝
70	25	41¼	26¼	37¼	30¼	39¼	34	33¼	35 5/16	29⅜	42¼	49	40 9/16	10½	16	68½	68	73¼	73 13/16	42	2 7/16	¾
80	28	47½	31	43	35	36½	39	36¼	38½	33⅛	48¼	57	43¼	10½	18	78	78½	75½	80	48	2 11/16	¾
90	30	53½	34½	49	39	45	44	41½	43¼	36¼	56¾	65	49½	12½	20	88	88	89	91	54	2 11/16	¾
100	32	59½	35½	55	43	50	49	46½	48	40¼	64¾	73	54¼	12½	20	98	95	99	100¾	60	2 15/16	¾
110	36	61½	40½	60	47	50½	53½	51¼	52¼	45⅛	72¼	81	59	12½	22	107	105	104	110¼	66	3 7/16	¾
120	42	70	46	65	51	55	58	57¼	59½	50	84⅞	93	66¼	14½	24	116	116	113	124	72	3 7/16	¾
140	48	82	49	77	59	64	68	74¼	80¼	57⅞	96⅞	108	89	16½	28	136	131	132	163¼	84	3 15/16	¾
160	54	93	59	87	67	72	77	74¼	80¼	65¾	96⅞	108	89	16½	32	154	152	149	163¼	96	4½	¾
180	60	101	68	98	76	80	87	87¼	94	74½	109	120	103¼	18½	36	174	172	167	190½	108	5	¾
200	72	113	72	108	84	88	96	93¼	100	82⅞	121	132	109¼	18½	42	192	185	184	202½	120	5½	¾

Double Inlet

Steel Plate Fan—Design 1

Double Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia	Anchor Bolts
80	28	32	42½	31	39	47	15	35	36¼	38½	31½	48	57	43¾	10½	18	70	74½	50	80	48	2 15/16	⅝
90	30	33¼	46¾	34	41	52	18	39	41½	43¼	36¼	56	65	49½	12½	20	78	80	57	91	51	2 15/16	⅝
100	32	35	51¾	37	49	56	20	43	46½	48	40¼	64	73	54¼	12½	20	86	86¼	63	100¼	60	2 15/16	¾
110	36	39	56½	40½	53½	60	20	47	51¼	52¾	45⅛	72	81	59	12½	22	94	95½	67	110¼	66	3 7/16	¾
120	42	40¼	60	41	58	70	24	51	57¼	59½	50	84	93	66¾	14½	24	102	100¼	75	124	72	3 7/16	¾
140	48	47½	71¼	50	68	78¼	26¼	59	74¾	80¾	57⅞	96	108	89	16½	28	118	119¼	85¼	163¾	84	3 15/16	¾
160	54	51	79¼	57	77	90 3/16	32 3/16	67	74¾	80¾	65¾	96	108	89	16½	32	134	130¾	99 3/16	163¾	96	4½	¾
180	60	57¾	89¼	65	87	100	36	76	87¼	94	74½	108	120	103¼	18½	36	152	147	112	190½	108	5	¾
200	72	63	97½	72	96	116	40	84	93¼	100	82⅝	120	132	109¼	18½	42	168	160½	124	202½	120	5½	¾
220	78	70¾	108	81	107	126	44	94	99¼	107	90⅝	132	114	117¼	20½	48	188	178¾	138	216½	132	6	¾
240	84	80	119	90	118	134	46	104	105¼	113	98⅞	144	156	123¼	20½	48	208	199	150	228½	144	6	¾

Double Inlet

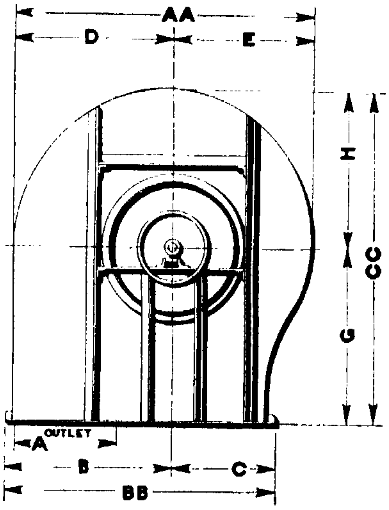
Steel Plate Fan—Design 1

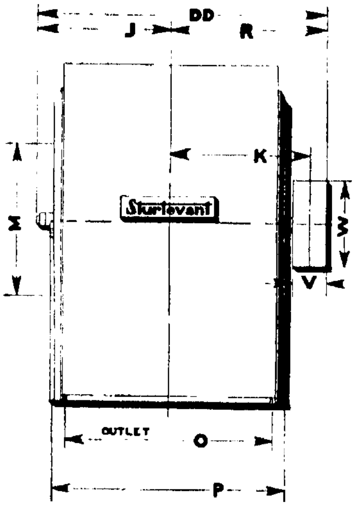
Double Width

Full Housing

Down Blast Discharge

Overhung Pulley





Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	Anchor Bolts
50	18	29	19¼	27	23	28⅞	25	26	28 1/16	20¼	30⅝	34	33 5/16	10½	10	50	48¾	53⅛	59 5/16	30	2 3/16	⅞
60	22	35½	23¾	33	27	33¾	30	29	30 11/16	26⅞	36¼	41	35 7/16	10½	14	60	59¾	63¼	64 7/16	36	2 7/16	⅝
70	25	41¼	26¼	37¼	30¼	39¼	34	33¼	35 5/16	29⅜	42¼	49	40 9/16	10½	16	68½	68	73¼	73 13/16	42	2 7/16	¾
80	28	47½	31	43	35	36½	39	36¼	38½	33⅛	48¾	57	43¼	10½	18	78	78½	75½	80	48	2 11/16	¾
90	30	53½	34½	49	39	45	44	41½	43¼	36¼	56¾	65	49½	12½	20	88	88	89	91	54	2 15/16	¾
100	32	59½	35½	55	43	50	49	46½	48	40¼	64¾	73	54¼	12½	20	98	95	99	100¾	60	2 15/16	¾
110	36	61½	40½	60	47	50½	53½	51¼	52¼	45⅛	72¾	81	59	12½	22	107	105	104	110¼	66	3 7/16	¾
120	42	70	46	65	51	55	58	57¼	59½	50	84⅞	93	66¼	14½	24	116	116	113	124	72	3 7/16	¾
140	48	82	49	77	59	64	68	74¼	80¼	57⅞	96⅞	108	89	16½	28	136	131	132	163¼	84	3 15/16	¾
160	54	93	59	87	67	72	77	74¼	80¼	65¾	96⅞	108	89	16½	32	154	152	149	163¼	96	4½	¾
180	60	101	68	98	76	80	87	87¼	94	74½	109	120	103¼	18½	36	174	172	167	190½	108	5	¾
200	72	113	72	108	84	88	96	93¼	100	82⅞	121	132	109¼	18½	42	192	185	184	202½	120	5½	¾

Double Inlet

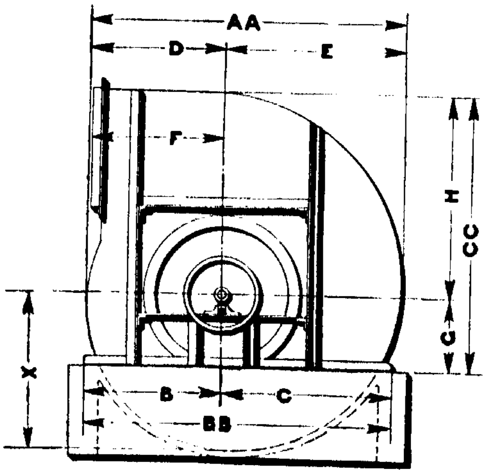
Steel Plate Fan—Design 1

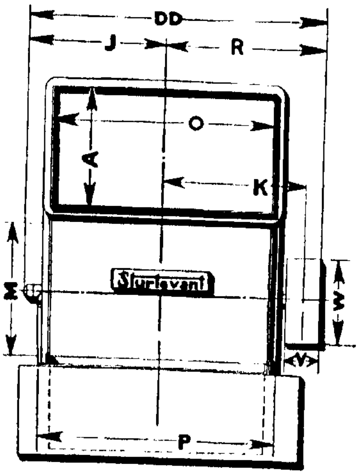
Double Width

¾ Housing

Top Horizontal Discharge

Overhung Pulley





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	X	AA	BB	CC	DD	Wheel Dia.	Shaft Dia.	Anchor Bolts
80	28¾	34	40¼	31	39	30½	15	43	36¼	38½	31¼	48¾	57	43¼	10½	18	35	70	74¾	58	80	48	2 15/16	⅝
90	30¾	36½	44¼	34	41	31¼	18	49	41½	43¾	36¼	56¾	65	49½	12½	20	39	78	81¼	67	91	54	2 15/16	⅝
100	32¾	39	49	37	49	36⅝	20	55	46½	48	40¼	64¼	73	51¼	12½	20	43	86	88	75	100¾	60	2 15/16	¾
110	36¼	42¾	53¼	40½	53½	40½	20	60	51¼	52¾	45⅝	72¾	81	59	12½	22	47	94	96½	80	110¼	66	3 7/16	¾
120	42⅞	45¼	56¾	44	58	41½	24	65	57¼	59½	50	84⅞	93	66¾	14½	24	51	102	102	89	124	72	3 7/16	¾
140	48⅞	53	68¼	50	68	45½	26¼	77	74¾	80¼	57⅞	96⅞	108	89	16½	28	59	118	121¼	103¼	163¾	84	3 15/16	¾
160	51⅞	58½	75	57	77	49½	32 3/16	87	71¼	80¾	65¼	96⅞	108	89	16½	32	67	131	133½	119 3/16	163¾	96	4½	¾
180	61	66	84	65	87	57½	36	98	87¼	94	71½	109	120	103¼	18½	36	76	152	150	134	190½	108	5	¾
200	73	72	91¾	72	96	68½	40	108	93¼	100	82⅜	121	132	109¼	18½	42	84	168	163¾	148	202½	120	5½	¾
220	79	80¼	101½	81	107	73	44	120	99¼	107	90⅜	133	144	177¼	20½	48	94	188	182	164	216½	132	6	¾
240	85	89½	112¼	90	118	81	46	132	105¼	113	98⅞	145	156	123¼	20½	48	104	208	202¼	178	228¼	144	6	¾

Single Inlet **Single Width**

30" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
295	1400	0.157	320	0.012												
339	1600	0.205	469	0.022												
382	1800	0.259	596	0.034	296	0.021										
425	2000	0.320	711	0.048	469	0.034										
467	2200	0.387	818	0.067	621	0.055	300	0.038								
510	2400	0.460	913	0.089	752	0.077	533	0.062								
551	2600	0.540	1,010	0.115	874	0.100	685	0.087	469	0.075						
595	2800	0.626	1,100	0.145	993	0.130	829	0.115	639	0.099						
637	3000	0.718	1,190	0.185	1,100	0.170	960	0.150	792	0.135	605	0.115				
680	3200	0.816	1,270	0.225	1,200	0.210	1,080	0.190	937	0.175	767	0.155	581	0.125		
721	3400	0.922	1,360	0.265	1,300	0.255	1,200	0.235	1,070	0.225	919	0.195	739	0.170	577	0.145
765	3600	1.03	1,450	0.330	1,380	0.31	1,300	0.290	1,190	0.265	1,060	0.245	900	0.225	756	0.200
806	3800	1.15	1,540	0.385	1,480	0.36	1,410	0.340	1,310	0.320	1,190	0.310	1,050	0.275	916	0.255
850	4000	1.28	1,620	0.445			1,510	0.415	1,400	0.385	1,320	0.375	1,200	0.340	1,080	0.320
891	4200	1.41	1,710	0.52			1,610	0.49	1,530	0.46	1,450	0.435	1,330	0.445	1,220	0.395
935	4400	1.54	1,790	0.60			1,700	0.55	1,630	0.53	1,560	0.51	1,460	0.49	1,340	0.47
976	4600	1.69	1,880	0.68			1,790	0.65	1,740	0.63	1,670	0.61	1,570	0.57	1,490	0.55
1019	4800	1.84	1,960	0.78			1,880	0.73	1,830	0.71	1,770	0.69	1,690	0.66	1,600	0.64
1060	5000	2.00	2,050	0.88					1,920	0.82	1,870	0.80	1,800	0.77	1,720	0.73
1113	5250	2.20	2,150	1.05					2,040	0.95	1,990	0.93	1,930	0.91	1,860	0.87
1168	5500	2.42	2,260	1.20					2,160	1.1	2,110	1.10	2,050	1.05	1,990	1.05
1220	5750	2.54	2,350	1.30							2,210	1.20	2,170	1.15	2,110	1.15
1272	6000	2.87	2,470	1.55							2,320	1.45	2,300	1.40	2,260	1.40
1328	6250	3.12	2,560	1.75									2,410	1.60	2,350	1.55
1380	6500	3.38	2,680	1.95									2,540	1.85	2,490	1.80
1431	6750	3.63	2,780	2.20											2,610	2.00
1486	7000	3.91	2,880	2.45											2,780	2.25
1590	7500	4.50	3,090	3												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
765	3600	1.03	590	0.170												
806	3800	1.15	766	0.225												
850	4000	1.28	936	0.300	643	0.255										
891	4200	1.41	1,090	0.360	820	0.300										
935	4400	1.54	1,230	0.435	976	0.375	711	0.300								
976	4600	1.69	1,380	0.51	1,140	0.47	891	0.395								
1019	4800	1.84	1,500	0.62	1,300	0.55	1,070	0.49	813	0.405						
1060	5000	2.00	1,630	0.71	1,440	0.65	1,230	0.60	993	0.51						
1113	5250	2.20	1,770	0.84	1,610	0.79	1,420	0.73	1,200	0.65	980	0.56				
1168	5500	2.42	1,920	0.99	1,770	0.95	1,580	0.88	1,390	0.81	1,200	0.72	985	0.64		
1220	5750	2.54	2,040	1.10	1,890	1.05	1,750	1.00	1,590	0.95	1,400	0.88	1,120	0.77		
1272	6000	2.87	2,200	1.35	2,070	1.25	1,920	1.20	1,760	1.15	1,580	1.05	1,400	0.99	1,210	0.87
1328	6250	3.12	2,330	1.55	2,210	1.45	2,070	1.40	1,930	1.35	1,780	1.25	1,600	1.20	1,420	1.10
1380	6500	3.38	2,450	1.75	2,350	1.70	2,210	1.60	2,100	1.55	1,950	1.45	1,780	1.40	1,620	1.30
1431	6750	3.63	2,570	2.00	2,480	1.90	2,360	1.85	2,240	1.75	2,110	1.70	1,960	1.60	1,810	1.55
1486	7000	3.91	2,690	2.25	2,600	2.15	2,500	2.10	2,380	2.00	2,260	1.95	2,130	1.85	1,980	1.75
1590	7500	4.50	2,920	2.8	2,850	2.75	2,760	2.65	2,660	2.55	2,580	2.45	2,440	2.40	2,320	2.35
1698	8000	5.11			3,080	3.4	3,020	3.3	2,940	3.20	2,850	3.10	2,740	3.00	2,640	3.00
1802	8500	5.76			3,310	4.1	3,260	4.0	3,170	3.95	3,140	3.85	3,020	3.70	2,940	3.60
1910	9000	6.46			3,540	4.9	3,480	4.8	3,430	4.7	3,370	4.6	3,280	4.55	3,220	4.35
2020	9500	7.20					3,720	5.7	3,600	5.7	3,600	5.5	3,540	5.4	3,490	5.3
2120	10000	7.98					3,960	6.8	3,900	6.6	3,850	6.6	3,790	6.4	3,730	6.4

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1328	6250	3.12	1,230	1.00												
1380	6500	3.38	1,440	1.20	1,200	1.10										
1431	6750	3.63	1,630	1.45	1,470	1.35										
1486	7000	3.91	1,830	1.70	1,690	1.60	1,340	1.40								
1590	7500	4.50	2,200	2.25	2,080	2.45	1,760	1.95	1,460	1.70						
1698	8000	5.11	2,530	2.85	2,410	2.75	2,150	2.55	1,870	2.35	1,280	1.85				
1802	8500	5.76	2,840	3.55	2,730	3.40	2,490	3.30	2,240	3.10	1,710	2.55				
1910	9000	6.46	3,130	4.35	3,020	4.25	2,830	4.05	2,600	3.85	2,120	3.30	1,620	2.75		
2020	9500	7.20	3,400	5.2	3,320	5.1	3,150	4.9	2,940	4.7	2,510	4.25	2,040	3.7	1,540	3.10
2120	10000	7.98	3,670	6.2	3,600	6.2	3,430	6	3,200	5.7	2,880	5.2	2,450	4.7	1,980	4.05

Single Inlet **Single Width**

35" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H.P.
255	1400	0.157	478	0.017												
291	1600	0.205	701	0.034												
328	1800	0.259	893	0.051	443	0.032										
364	2000	0.320	1,070	0.072	701	0.051										
400	2200	0.387	1,230	0.100	931	0.083	539	0.057								
436	2400	0.460	1,370	0.135	1,130	0.115	797	0.092								
473	2600	0.540	1,510	0.170	1,310	0.155	1,030	0.130	701	0.110						
509	2800	0.626	1,650	0.220	1,490	0.200	1,240	0.175	956	0.150						
545	3000	0.718	1,780	0.275	1,650	0.250	1,410	0.225	1,190	0.200	906	0.170				
582	3200	0.816	1,910	0.335	1,800	0.310	1,620	0.285	1,400	0.260	1,150	0.230	870	0.190		
619	3400	0.922	2,040	0.400	1,940	0.385	1,800	0.35	1,610	0.335	1,380	0.295	1,110	0.255	865	0.215
655	3600	1.03	2,170	0.495	2,070	0.46	1,950	0.43	1,790	0.40	1,590	0.365	1,350	0.335	1,130	0.300
690	3800	1.15	2,300	0.57	2,220	0.54	2,120	0.51	1,950	0.48	1,790	0.46	1,580	0.415	1,370	0.385
727	4000	1.28	2,430	0.67			2,260	0.62	2,130	0.57	1,980	0.56	1,800	0.51	1,610	0.48
764	4200	1.41	2,560	0.78			2,410	0.73	2,290	0.69	2,170	0.65	2,000	0.62	1,830	0.59
800	4400	1.54	2,690	0.89			2,510	0.83	2,450	0.80	2,340	0.77	2,180	0.73	2,010	0.70
837	4600	1.69	2,810	1.00			2,680	0.97	2,610	0.94	2,510	0.91	2,360	0.86	2,220	0.83
873	4800	1.84	2,930	1.15			2,810	1.1	2,740	1.05	2,640	1.05	2,530	0.99	2,400	0.96
910	5000	2.00	3,060	1.30					2,880	1.25	2,800	1.20	2,700	1.15	2,570	1.10
955	5250	2.20	3,220	1.55					3,060	1.45	2,980	1.40	2,900	1.35	2,790	1.30
1000	5500	2.42	3,380	1.80					3,220	1.7	3,160	1.65	3,070	1.60	2,990	1.55
1046	5750	2.54	3,530	1.95							3,310	1.80	3,250	1.75	3,160	1.70
1090	6000	2.87	3,700	2.30							3,480	2.15	3,450	2.10	3,380	2.05
1137	6250	3.12	3,850	2.60									3,620	2.40	3,520	2.35
1181	6500	3.38	4,010	2.95									3,800	2.75	3,730	2.70
1228	6750	3.63	4,140	3.30											3,900	3.00
1271	7000	3.91	4,310	3.65											4,080	3.35
1362	7500	4.50	4,620	4.45												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
655	3600	1.03	884	0.250												
690	3800	1.15	1,150	0.335												
727	4000	1.28	1,400	0.445	964	0.380										
764	4200	1.41	1,630	0.54	1,230	0.445										
800	4400	1.54	1,840	0.65	1,460	0.56	1,070	0.445								
837	4600	1.69	2,070	0.77	1,710	0.70	1,340	0.59								
873	4800	1.84	2,250	0.93	1,940	0.83	1,590	0.73	1,220	0.61						
910	5000	2.00	2,450	1.05	2,160	0.97	1,830	0.80	1,490	0.77						
955	5250	2.20	2,660	1.25	2,410	1.2	2,120	1.10	1,790	0.97	1,470	0.85				
1000	5500	2.42	2,880	1.50	2,660	1.4	2,380	1.30	2,080	1.20	1,790	1.10	1,480	0.96		
1046	5750	2.54	3,050	1.65	2,840	1.6	2,630	1.50	2,380	1.40	2,100	1.30	1,680	1.15		
1090	6000	2.87	3,280	2.00	3,090	1.9	2,870	1.80	2,630	1.70	2,370	1.60	2,100	1.5	1,810	1.35
1137	6250	3.12	3,490	2.35	3,310	2.2	3,100	2.10	2,890	2.00	2,670	1.90	2,390	1.8	2,120	1.65
1181	6500	3.38	3,670	2.65	3,510	2.5	3,320	2.40	3,140	2.35	2,920	2.15	2,670	2.1	2,430	2.00
1228	6750	3.63	3,850	3.00	3,720	2.9	3,540	2.75	3,350	2.65	3,160	2.55	2,930	2.4	2,720	2.30
1271	7000	3.91	4,020	3.35	3,890	3.2	3,730	3.10	3,570	3.0	3,380	2.90	3,190	2.8	2,970	2.65
1362	7500	4.50	4,370	4.3	4,270	4.1	4,150	4.00	3,990	3.8	3,860	3.65	3,670	3.6	3,480	3.50
1453	8000	5.11			4,620	5.1	4,530	4.95	4,400	4.8	4,270	4.6	4,110	4.5	3,960	4.45
1545	8500	5.76			4,970	6.1	4,880	6.1	4,750	5.9	4,650	5.7	4,540	5.6	4,400	5.1
1637	9000	6.46			5,310	7.4	5,230	7.2	5,140	7.0	5,040	6.9	4,940	6.8	4,810	6.5
1728	9500	7.20					5,580	8.6	5,490	8.6	5,390	8.3	5,310	8.1	5,230	8.0
1819	10000	7.98					5,930	10	5,840	9.9	5,770	9.9	5,690	9.6	5,580	9.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1137	6250	3.12	1,850	1.50												
1181	6500	3.38	2,160	1.85	1,890	1.65										
1228	6750	3.63	2,450	2.15	2,200	2.00										
1271	7000	3.91	2,740	2.55	2,530	2.40	2,020	2.05								
1362	7500	4.50	3,290	3.35	3,080	3.20	2,630	2.90	2,180	2.55						
1453	8000	5.11	3,790	4.3	3,600	4.15	3,220	3.80	2,800	3.5	1,910	2.75				
1545	8500	5.76	4,270	5.3	4,080	5.1	3,730	4.95	3,350	4.6	2,560	3.85				
1637	9000	6.46	4,690	6.5	4,530	6.4	4,250	6.1	3,890	5.7	3,180	4.95	2,420	4.15		
1728	9500	7.20	5,100	7.8	4,970	7.7	4,720	7.3	4,400	7.0	3,760	6.4	3,060	5.6	2,310	4.6
1819	10000	7.98	5,500	9.4	5,390	9.3	5,140	8.9	4,880	8.6	4,300	7.8	3,670	7	2,970	6.1

Single Inlet

40" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
223	1400	0.157	626	0.024												
255	1600	0.205	918	0.044												
287	1800	0.259	1,170	0.067	580	0.041										
318	2000	0.320	1,390	0.094	918	0.067										
350	2200	0.387	1,600	0.130	1,220	0.11	705	0.075								
382	2400	0.460	1,790	0.175	1,470	0.15	1,040	0.120								
414	2600	0.540	1,970	0.225	1,710	0.20	1,340	0.170	918	0.145						
445	2800	0.626	2,150	0.29	1,950	0.26	1,620	0.230	1,250	0.195						
478	3000	0.718	2,330	0.36	2,160	0.33	1,880	0.295	1,550	0.265	1,180	0.220				
510	3200	0.816	2,490	0.44	2,350	0.41	2,120	0.37	1,840	0.34	1,500	0.300	1,140	0.245		
541	3400	0.922	2,670	0.52	2,540	0.50	2,350	0.46	2,100	0.44	1,800	0.385	1,450	0.335	1,130	0.285
573	3600	1.03	2,840	0.65	2,700	0.60	2,550	0.56	2,340	0.52	2,080	0.48	1,760	0.44	1,480	0.39
605	3800	1.15	3,010	0.75	2,900	0.71	2,760	0.67	2,560	0.63	2,340	0.60	2,070	0.54	1,790	0.50
637	4000	1.28	3,180	0.88			2,960	0.81	2,780	0.75	2,590	0.73	2,360	0.67	2,110	0.63
670	4200	1.41	3,350	1.00			3,150	0.96	3,000	0.90	2,840	0.86	2,610	0.81	2,390	0.77
700	4400	1.54	3,520	1.15			3,320	1.10	3,200	1.05	3,060	1.00	2,850	0.96	2,630	0.92
732	4600	1.69	3,680	1.35			3,510	1.25	3,410	1.25	3,280	1.20	3,080	1.15	2,910	1.10
765	4800	1.84	3,830	1.50			3,680	1.45	3,590	1.40	3,460	1.35	3,310	1.30	3,140	1.25
796	5000	2.00	4,010	1.75					3,760	1.60	3,650	1.55	3,530	1.50	3,360	1.45
836	5250	2.20	4,210	2.00					4,000	1.85	3,900	1.80	3,790	1.80	3,610	1.70
875	5500	2.42	4,420	2.35					4,210	2.2	4,140	2.15	4,020	2.10	3,900	2.00
915	5750	2.54	4,620	2.55							4,330	2.35	4,250	2.30	4,130	2.25
955	6000	2.87	4,840	3.00							4,550	2.8	4,500	2.75	4,420	2.70
996	6250	3.12	5,030	3.40									4,730	3.15	4,600	3.10
1034	6500	3.38	5,250	3.85									4,960	3.65	4,880	3.50
1074	6750	3.63	5,450	4.3											5,100	3.95
1115	7000	3.91	5,630	4.8											5,340	4.4
1193	7500	4.50	6,050	5.8												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
573	3600	1.03	1,160	0.33												
605	3800	1.15	1,500	0.44												
637	4000	1.28	1,840	0.58	1,260	0.50										
670	4200	1.41	2,130	0.71	1,610	0.58										
700	4400	1.54	2,410	0.86	1,910	0.73	1,390	0.58								
732	4600	1.69	2,710	1.00	2,230	0.92	1,750	0.77								
765	4800	1.84	2,950	1.20	2,540	1.10	2,090	0.96	1,590	0.79						
796	5000	2.00	3,200	1.40	2,820	1.25	2,400	1.15	1,950	1.00						
836	5250	2.20	3,480	1.65	3,160	1.55	2,780	1.45	2,350	1.25	1,920	1.10				
875	5500	2.42	3,760	1.95	3,480	1.85	3,120	1.75	2,730	1.60	2,340	1.40	1,930	1.25		
915	5750	2.54	3,990	2.15	3,720	2.05	3,440	1.95	3,010	1.85	2,740	1.75	2,200	1.50		
955	6000	2.87	4,300	2.65	4,050	2.45	3,760	2.40	3,440	2.25	3,100	2.10	2,740	1.95	2,360	1.75
996	6250	3.12	4,560	3.05	4,330	2.90	4,060	2.75	3,780	2.65	3,500	2.45	3,130	2.30	2,780	2.15
1034	6500	3.38	4,800	3.45	4,590	3.30	4,340	3.15	4,100	3.05	3,820	2.85	3,500	2.75	3,180	2.60
1074	6750	3.63	5,040	3.9	4,860	3.75	4,630	3.6	4,380	3.45	4,130	3.35	3,840	3.15	3,550	3.00
1115	7000	3.91	5,250	4.4	5,100	4.15	4,880	4.1	4,670	3.9	4,420	3.8	4,180	3.65	3,880	3.45
1193	7500	4.50	5,710	5.6	5,590	5.4	5,420	5.2	5,210	5.0	5,050	4.8	4,800	4.75	4,550	4.6
1273	8000	5.11			6,050	6.6	5,910	6.5	5,750	6.3	5,590	6.0	5,370	5.9	5,170	5.8
1352	8500	5.76			6,500	8.0	6,390	7.9	6,210	7.7	6,000	7.5	5,940	7.3	5,750	7.1
1433	9000	6.46			6,950	9.7	6,830	9.4	6,720	9.2	6,600	9	6,460	8.9	6,300	8.6
1511	9500	7.20					7,300	11.5	7,180	11.5	7,050	11	6,950	10.5	6,850	10.5
1591	10000	7.98					7,760	13.5	7,640	13	7,550	13	7,430	12.5	7,300	12.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
996	6250	3.12	2,410	1.95												
1034	6500	3.38	2,830	2.4	2,470	2.15										
1074	6750	3.63	3,200	2.8	2,880	2.65										
1115	7000	3.91	3,590	3.3	3,300	3.15	2,640	2.7								
1193	7500	4.50	4,310	4.4	4,010	4.15	3,440	3.8	2,850	3.35						
1273	8000	5.11	4,960	5.6	4,710	5.4	4,210	5.0	3,660	4.6	2,500	3.6				
1352	8500	5.76	5,580	7.0	5,340	6.7	4,890	6.5	4,390	6.0	3,350	5.0				
1433	9000	6.46	6,140	8.5	5,930	8.3	5,550	7.9	5,100	7.5	4,160	6.5	3,170	5.4		
1511	9500	7.20	6,660	10	6,500	10	6,180	9.6	5,750	9.2	4,920	8.3	4,000	7.3	3,020	6.0
1591	10000	7.98	7,200	12	7,050	12	6,720	11.5	6,390	11.5	5,630	10	4,800	9.2	3,880	7.9

Single Inlet

45" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
198	1400	0.157	790	0.031												
226	1600	0.205	1,160	0.055												
255	1800	0.259	1,480	0.084	733	0.052										
283	2000	0.320	1,760	0.120	1,160	0.081										
311	2200	0.387	2,020	0.165	1,540	0.135	890	0.095								
340	2400	0.460	2,260	0.220	1,860	0.190	1,320	0.155								
368	2600	0.540	2,490	0.285	2,160	0.255	1,700	0.215	1,160	0.185						
396	2800	0.626	2,720	0.365	2,460	0.325	2,050	0.290	1,580	0.245						
425	3000	0.718	2,940	0.455	2,720	0.415	2,380	0.375	1,960	0.330	1,500	0.280				
452	3200	0.816	3,150	0.55	2,970	0.52	2,680	0.47	2,320	0.425	1,900	0.380				
481	3400	0.922	3,370	0.66	3,210	0.63	2,970	0.58	2,660	0.55	2,280	0.485	1,440	0.31		
510	3600	1.03	3,580	0.82	3,420	0.76	3,220	0.71	2,950	0.66	2,630	0.61	1,830	0.42	1,430	0.360
537	3800	1.15	3,800	0.95	3,670	0.9	3,490	0.81	3,230	0.79	2,950	0.76	2,230	0.55	1,870	0.495
566	4000	1.28	4,010	1.10			3,710	1.05	3,520	0.95	3,270	0.92	2,610	0.69	2,270	0.63
595	4200	1.41	4,230	1.30			3,980	1.20	3,790	1.15	3,580	1.10	2,980	0.84	2,660	0.79
622	4400	1.54	4,450	1.50			4,200	1.35	4,050	1.30	3,870	1.25	3,300	1.05	3,020	0.98
651	4600	1.69	4,650	1.70			4,410	1.6	4,310	1.55	4,150	1.50	3,600	1.20	3,330	1.15
680	4800	1.84	4,850	1.90			4,650	1.8	4,540	1.75	4,370	1.70	3,900	1.40	3,680	1.35
707	5000	2.00	5,060	2.20					4,760	2.05	4,620	2.00	4,180	1.65	3,970	1.60
743	5250	2.20	5,330	2.55					5,060	2.35	4,930	2.30	4,460	1.90	4,250	1.80
779	5500	2.42	5,590	2.95					5,330	2.75	5,230	2.70	4,790	2.25	4,610	2.15
811	5750	2.54	5,840	3.20							5,480	3.00	5,080	2.65	4,940	2.55
850	6000	2.87	6,110	3.80							5,750	3.55	5,370	2.9	5,220	2.80
885	6250	3.12	6,360	4.30									5,700	3.5	5,590	3.45
920	6500	3.38	6,640	4.85									5,990	4.0	5,820	3.90
955	6750	3.63	6,890	5.4									6,290	4.6	6,170	4.45
990	7000	3.91	7,120	6.1											6,450	5.0
1060	7500	4.50	7,650	7.4											6,750	5.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
510	3600	1.03	1,460	0.415												
537	3800	1.15	1,900	0.55												
566	4000	1.28	2,320	0.74	1,590	0.63										
595	4200	1.41	2,690	0.90	2,030	0.74										
622	4400	1.54	3,050	1.10	2,420	0.92	1,760	0.74								
651	4600	1.69	3,420	1.25	2,820	1.15	2,210	0.98								
680	4800	1.84	3,720	1.55	3,210	1.35	2,640	1.20	2,010	1.00						
707	5000	2.00	4,050	1.75	3,560	1.60	3,030	1.50	2,460	1.25						
743	5250	2.20	4,400	2.10	3,990	1.95	3,510	1.80	2,970	1.60	2,420	1.40				
779	5500	2.42	4,760	2.45	4,390	2.35	3,940	2.20	3,450	2.00	2,960	1.80	2,440	1.60		
814	5750	2.54	5,050	2.75	4,700	2.60	4,340	2.50	3,930	2.35	3,460	2.20	2,780	1.90		
850	6000	2.87	5,430	3.30	5,110	3.10	4,750	3.00	4,350	2.85	3,920	2.65	3,470	2.45	2,980	2.20
885	6250	3.12	5,770	3.90	5,480	3.65	5,120	3.50	4,770	3.30	4,410	3.1	3,960	2.95	3,500	2.75
920	6500	3.38	6,060	4.40	5,800	4.15	5,480	4.00	5,190	3.85	4,830	3.6	4,420	3.45	4,010	3.25
955	6750	3.63	6,360	4.95	6,150	4.75	5,850	4.55	5,540	4.30	5,210	4.2	4,850	4.0	4,490	3.80
990	7000	3.91	6,650	5.5	6,430	5.3	6,160	5.2	5,900	4.95	5,590	4.8	5,280	4.6	4,900	4.35
1060	7500	4.50	7,220	7.1	7,060	6.9	6,850	6.6	6,500	6.3	6,380	6.1	6,060	6.0	5,750	5.8
1131	8000	5.11			7,650	8.4	7,490	8.2	7,280	7.9	7,060	7.6	6,800	7.4	6,540	7.4
1201	8500	5.76			8,210	10	8,070	10	7,850	9.8	7,700	9.5	7,500	9.2	7,270	9
1273	9000	6.46			8,780	12	8,650	12	8,490	11.5	8,330	11.5	8,160	11.0	7,960	11
1343	9500	7.20					9,230	14	9,060	14.0	8,900	13.5	8,790	13.5	8,650	13
1414	10000	7.98					9,800	17	9,650	16.5	9,550	16.5	9,400	16	9,220	16

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
885	6250	3.12	3,050	2.50												
920	6500	3.38	3,570	3.00	3,020	2.75										
955	6750	3.63	4,010	3.55	3,640	3.3										
990	7000	3.91	4,530	4.2	4,170	4.0	3,330	3.45								
1060	7500	4.50	5,110	5.6	5,100	5.3	4,350	4.8	3,600	4.2						
1131	8000	5.11	6,260	7.1	5,950	6.9	5,320	6.3	4,620	5.8	3,160	4.55				
1201	8500	5.76	7,050	8.8	6,750	8.4	6,160	8.2	5,540	7.6	4,240	6.3				
1273	9000	6.46	7,750	10.5	7,480	10.5	7,010	10	6,430	9.5	5,260	8.2	4,000	6.9		
1343	9500	7.20	8,420	13.0	8,220	12.5	7,800	12	7,270	11.5	6,210	10.5	5,050	9.2	3,820	7.6
1414	10000	7.98	9,090	15.5	8,900	15.5	8,490	15	8,060	14	7,110	13	6,080	11.5	4,900	10

Single Inlet

50" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
178	1400	0.157	979	0.038												
204	1600	0.205	1,440	0.068												
229	1800	0.259	1,830	0.105	906	0.065										
255	2000	0.320	2,180	0.115	1,440	0.105										
280	2200	0.387	2,500	0.205	1,900	0.170	1,100	0.115								
306	2400	0.460	2,800	0.275	2,300	0.235	1,630	0.190								
331	2600	0.540	3,080	0.35	2,670	0.315	2,100	0.265	1,440	0.230						
356	2800	0.626	3,370	0.45	3,040	0.405	2,540	0.360	1,960	0.305						
382	3000	0.718	3,640	0.56	3,370	0.52	2,940	0.465	2,430	0.41	1,850	0.345				
407	3200	0.816	3,900	0.68	3,680	0.64	3,310	0.58	2,870	0.53	2,350	0.47	1,780	0.385		
433	3400	0.922	4,170	0.82	3,970	0.78	3,670	0.72	3,280	0.68	2,810	0.60	2,260	0.52	1,770	0.445
458	3600	1.03	4,440	1.00	4,230	0.95	3,990	0.88	3,650	0.82	3,250	0.75	2,760	0.69	2,320	0.61
481	3800	1.15	4,700	1.15	4,540	1.1	4,320	1.05	4,000	0.98	3,650	0.95	3,230	0.85	2,800	0.78
510	4000	1.28	4,960	1.35			4,630	1.25	4,350	1.15	4,050	1.15	3,680	1.05	3,300	0.98
535	4200	1.41	5,230	1.60			4,920	1.50	4,690	1.40	4,430	1.35	4,090	1.25	3,740	1.20
560	4400	1.54	5,500	1.85			5,200	1.70	5,000	1.65	4,790	1.55	4,450	1.50	4,120	1.45
585	4,600	1.69	5,750	2.10			5,490	2.00	5,330	1.9	5,130	1.85	4,820	1.75	4,550	1.70
611	4,800	1.84	5,990	2.40			5,750	2.25	5,600	2.2	5,400	2.10	5,170	2.00	4,910	1.95
636	5,000	2.00	6,270	2.70					5,890	2.5	5,710	2.45	5,520	2.35	5,260	2.25
669	5,250	2.20	6,590	3.15					6,250	2.9	6,000	2.85	5,920	2.80	5,700	2.65
700	5500	2.42	6,910	3.65					6,590	3.4	6,570	3.40	6,290	3.25	6,100	3.15
732	5750	2.51	7,210	3.95							6,770	3.70	6,650	3.60	6,450	3.50
765	6000	2.87	7,560	4.7							7,110	4.35	7,050	4.30	6,910	4.25
795	6250	3.12	7,860	5.3									5,400	4.95	7,200	4.8
823	6500	3.38	8,210	6.0									7,760	5.7	7,630	5.5
860	6750	3.63	8,520	6.7											7,990	6.2
891	7000	3.91	8,800	7.5											8,350	7

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
458	3600	1.03	1,810	0.52												
484	3800	1.15	2,350	0.69												
510	4000	1.28	2,870	0.91	1,970	0.78										
535	4200	1.41	3,330	1.10	2,510	0.91										
560	4400	1.54	3,770	1.35	2,990	1.15	2,180	0.91								
585	4600	1.69	4,230	1.55	3,490	1.45	2,730	1.20								
611	4800	1.84	4,600	1.90	3,970	1.70	3,260	1.50	2,490	1.25						
636	5000	2.00	5,000	2.20	4,410	2.00	3,750	1.85	3,040	1.55						
669	5250	2.25	5,440	2.55	4,930	2.40	4,340	2.20	3,670	2.00	3,000	1.75				
700	5500	2.42	5,890	3.05	5,430	2.90	4,870	2.70	4,260	2.50	3,600	2.20	3,020	1.95		
732	5750	2.51	6,240	3.4	5,800	3.25	5,370	3.05	4,870	2.90	4,200	2.70	3,440	2.35		
765	6000	2.87	6,710	4.1	6,320	3.85	5,860	3.70	5,380	3.50	4,850	3.25	4,300	3.05	3,690	2.75
795	6250	3.12	7,110	4.8	6,770	4.5	6,340	4.30	5,900	4.10	5,460	3.85	4,900	3.65	4,340	3.40
823	6500	3.38	7,500	5.4	7,170	5.2	6,790	4.95	6,410	4.75	5,970	4.45	5,460	4.30	4,960	4.05
860	6750	3.63	7,870	6.1	7,600	5.9	7,240	5.6	6,850	5.4	6,450	5.2	6,000	4.95	5,550	4.7
891	7000	3.91	8,210	6.9	7,950	6.5	7,030	6.4	7,300	6.1	6,910	5.9	6,540	5.7	6,060	5.4
955	7500	4.50	8,940	8.8	8,740	8.5	8,480	8.1	8,150	7.8	7,890	7.5	7,500	7.4	7,110	7.2
1019	8000	5.11			9,450	10.5	9,250	10.0	9,000	9.8	8,740	9.5	8,400	9.2	8,090	9.1
1081	8500	5.76			10,200	12.5	9,980	12.5	9,710	12.0	9,520	11.5	9,270	11.5	9,000	11.0
1147	9000	6.46			10,900	15	10,700	14.5	10,500	14.5	10,300	14	10,100	14.0	9,850	13.5
1210	9500	7.20					11,400	17.5	11,200	17.5	11,000	17	10,900	16.5	10,700	16.5
1273	10000	7.98					12,100	21	11,900	20	11,800	20	11,600	19.5	11,400	19.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
795	6250	3.12	3,770	3.05												
823	6500	3.38	4,420	3.75	3,860	3.40										
860	6750	3.63	5,010	4.4	4,500	4.10										
891	7000	3.91	5,610	5.2	5,160	4.95	4,110	4.25								
955	7500	4.50	6,740	6.9	6,300	6.5	5,380	5.9	4,450	5.2						
1019	8000	5.11	7,750	8.8	7,360	8.5	6,590	7.8	5,720	7.2	3,910	5.6				
1081	8500	5.76	8,710	11.0	8,350	10.5	7,630	10.0	6,850	9.5	5,240	7.8				
1147	9000	6.46	9,600	13.5	9,250	13.0	8,670	12.5	7,950	11.5	6,500	10	4,950	8.5		
1210	9500	7.20	10,400	16	10,200	15.5	9,650	15.0	9,000	14.5	7,700	13	6,250	11.5	4,720	9.5
1273	10000	7.98	11,300	19	11,000	19	10,500	18.5	9,980	17.5	8,800	16	7,500	14.5	6,000	12.5

Single Inlet **Single Width**

55" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
162	1400	0.157	1,180	0.046												
185	1600	0.205	1,730	0.083												
208	1800	0.259	2,200	0.125	1,090	0.078										
232	2000	0.320	2,630	0.175	1,730	0.125										
255	2200	0.387	3,020	0.250	2,300	0.205	1,330	0.140								
278	2400	0.460	3,380	0.330	2,780	0.285	1,970	0.230								
301	2600	0.540	3,720	0.425	3,230	0.38	2,540	0.325	1,730	0.275						
324	2800	0.625	4,060	0.54	3,670	0.49	3,060	0.435	2,360	0.365						
347	3000	0.718	4,390	0.68	4,060	0.62	3,550	0.56	2,930	0.495	2,240	0.415				
371	3200	0.816	4,700	0.83	4,410	0.77	3,990	0.70	3,460	0.64	2,840	0.57	2,150	0.465		
394	3400	0.922	5,040	0.98	4,800	0.94	4,430	0.87	3,960	0.83	3,400	0.72	2,730	0.63	2,130	0.54
416	3600	1.03	5,350	1.20	5,100	1.15	4,810	1.05	4,400	0.98	3,920	0.91	3,330	0.83	2,800	0.74
440	3800	1.15	5,680	1.40	5,480	1.35	5,220	1.25	4,820	1.20	4,400	1.15	3,900	1.00	3,390	0.94
463	4000	1.28	6,000	1.65			5,590	1.55	5,250	1.40	4,880	1.40	4,450	1.25	3,980	1.20
486	4200	1.41	6,310	1.95			5,950	1.80	5,650	1.70	5,350	1.60	4,930	1.55	4,500	1.45
510	4400	1.54	6,610	2.20			6,260	2.05	6,040	1.95	5,770	1.90	5,380	1.80	4,970	1.75
532	4600	1.69	6,950	2.50			6,620	2.4	6,440	2.30	6,190	2.25	5,810	2.10	5,490	2.05
555	4800	1.84	7,230	2.85			6,950	2.7	6,770	2.65	6,520	2.55	6,240	2.45	5,920	2.35
579	5000	2.00	7,560	3.25					7,110	3.05	6,900	2.95	6,650	2.85	6,350	2.7
607	5250	2.20	7,950	3.8					7,550	3.55	7,350	3.45	7,150	3.35	6,870	3.2
636	5500	2.42	8,350	4.4					7,950	4.15	7,800	4.00	7,580	3.95	7,360	3.8
665	5750	2.51	8,700	4.8							8,170	4.45	8,010	4.35	7,790	4.2
695	6000	2.87	9,130	5.7							8,680	5.3	8,500	5.2	8,350	5.1
723	6250	3.12	9,490	6.4									8,930	5.9	8,680	5.8
753	6500	3.38	9,900	7.2									9,360	6.8	9,200	6.6
781	6750	3.63	10,300	8.1											9,630	7.5
810	7000	3.91	10,600	9.1											10,100	8.3
869	7500	4.50	11,400	11												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
416	3600	1.03	2,180	0.62												
440	3800	1.15	2,830	0.83												
463	4000	1.28	3,460	1.10	2,380	0.94										
486	4200	1.41	4,010	1.35	3,030	1.10										
510	4400	1.54	4,550	1.60	3,610	1.40	2,630	1.10								
532	4600	1.69	5,100	1.90	4,210	1.75	3,300	1.45								
555	4800	1.84	5,550	2.30	4,790	2.05	3,940	1.80	3,010	1.50						
579	5000	2.00	6,040	2.65	5,320	2.40	4,530	2.20	3,670	1.90						
607	5250	2.20	6,560	3.10	5,950	2.90	5,240	2.70	4,330	2.40	3,620	2.10				
636	5500	2.42	7,100	3.65	6,550	3.50	5,800	3.25	5,150	3.00	4,420	2.70	3,640	2.40		
665	5750	2.54	7,520	4.10	6,780	3.90	6,490	3.7	5,880	3.50	5,170	3.25	4,150	2.85		
695	6000	2.87	8,100	4.95	7,640	4.65	7,000	4.5	6,500	4.25	5,850	3.95	5,180	3.65	4,450	3.3
723	6250	3.12	8,500	5.8	8,160	5.4	7,650	5.2	7,130	4.95	6,600	4.65	5,900	4.4	5,230	4.1
753	6500	3.38	9,050	6.5	8,650	6.2	8,190	6.0	7,740	5.7	7,210	5.4	6,600	5.2	5,990	4.9
781	6750	3.63	9,500	7.4	9,160	7.1	8,740	6.8	8,260	6.5	7,800	6.3	7,250	6.0	6,700	5.7
810	7000	3.91	9,910	8.3	9,600	7.9	9,210	7.7	8,810	7.4	8,350	7.2	7,890	6.9	7,320	6.5
869	7500	4.50	10,800	10.5	10,500	10.0	10,200	9.8	9,840	9.4	9,520	9.1	9,050	8.9	8,580	8.7
925	8000	5.11			11,400	12.5	11,200	12.0	10,900	12.0	10,500	11.5	10,100	11.0	9,750	11.0
981	8500	5.76			12,300	15	12,100	15.0	11,700	14.5	11,500	14.0	11,200	13.5	10,900	13.5
1040	9000	6.46			13,100	18	12,900	17.5	12,700	17.5	12,400	17.0	12,200	17	11,900	16.0
1100	9500	7.20					13,800	21	13,500	21.0	13,300	20.5	13,100	20	12,900	19.5
1158	10000	7.98					14,600	25	14,400	24.5	14,300	24.5	14,000	24	13,800	23.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
723	6250	3.12	4,350	3.55												
753	6500	3.38	5,090	4.3	4,060	4.10										
781	6750	3.63	5,760	5.0	5,430	4.95										
810	7000	3.91	6,460	6.0	6,210	6.0	4,970	5.4								
869	7500	4.50	7,750	7.9	7,610	7.9	6,500	7.2	5,380	6.3						
925	8000	5.11	8,920	10.5	8,900	10.0	7,950	9.4	6,900	8.7	4,720	6.8				
984	8500	5.76	10,500	13.0	10,100	12.5	9,210	12	8,260	11.5	6,320	9.4				
1040	9000	6.46	11,600	16.0	11,200	15.5	10,500	15	9,600	14.0	7,850	12.0	5,970	10.6		
1100	9500	7.20	12,600	19.5	12,300	19	11,700	18	10,900	17.5	9,290	16.0	7,550	14.0	5,700	11.5
1158	10000	7.98	13,600	23	13,300	23	12,700	22	12,000	21	10,600	19.5	9,050	17.5	7,310	15

Single Inlet **Single Width**

60" Steel Plate Fan—Design 1

When Discharing Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
148	1400	0.157	1,500	0.058												
170	1600	0.205	2,200	0.105												
191	1800	0.259	2,800	0.160	1,390	0.099										
212	2000	0.320	3,340	0.225	2,200	0.16										
233	2200	0.387	3,840	0.315	2,920	0.26	1,690	0.18								
254	2400	0.460	4,290	0.42	3,530	0.36	2,500	0.29								
276	2600	0.540	4,730	0.54	4,100	0.48	3,220	0.41	2,200	0.350						
297	2800	0.626	5,160	0.69	4,660	0.62	3,890	0.55	3,000	0.465						
318	3000	0.718	5,580	0.86	5,160	0.79	4,510	0.71	3,720	0.63	2,840	0.53				
339	3200	0.816	5,980	1.05	5,640	0.98	5,070	0.89	4,400	0.81	3,600	0.72	2,730	0.59		
360	3400	0.922	6,400	1.25	6,090	1.20	5,630	1.10	5,040	1.05	4,310	0.92	3,470	0.80	2,710	0.68
382	3600	1.03	6,800	1.55	6,490	1.45	6,110	1.35	5,600	1.25	4,900	1.15	4,230	1.05	3,550	0.94
403	3800	1.15	7,210	1.80	6,960	1.7	6,630	1.60	6,130	1.50	5,600	1.45	4,950	1.30	4,300	1.20
425	4000	1.28	7,610	2.10			7,100	1.95	6,680	1.80	6,200	1.75	5,650	1.60	5,050	1.50
445	4200	1.41	8,020	2.45			7,550	2.30	7,190	2.15	6,800	2.05	6,260	1.95	5,730	1.85
466	4400	1.54	8,430	2.80			7,960	2.60	7,670	2.50	7,340	2.40	6,840	2.30	6,310	2.20
488	4600	1.69	8,820	3.20			8,410	3.05	8,180	2.95	7,860	2.85	7,390	2.70	6,980	2.60
509	4800	1.84	9,190	3.65			8,820	3.45	8,600	3.35	8,290	3.25	7,930	3.10	7,530	3.00
530	5000	2.00	9,610	4.15					9,030	3.85	8,760	3.75	8,460	3.60	8,060	3.45
556	5250	2.20	10,100	4.8					9,590	4.50	9,330	4.35	9,080	4.25	8,730	4.10
584	5500	2.42	10,600	5.6					10,100	5.25	9,920	5.1	9,640	5.0	9,360	4.85
610	5750	2.54	11,100	6.1							10,400	5.6	10,200	5.5	9,900	5.3
636	6000	2.87	11,600	7.2							10,900	6.7	10,800	6.6	10,600	6.5
662	6250	3.12	12,100	8.2									11,300	7.6	11,000	7.4
690	6500	3.38	12,600	9.2									11,900	8.7	11,700	8.4
715	6750	3.63	13,100	10.5											12,200	9.4
742	7000	3.91	13,500	11.5											12,800	10.5
795	7500	4.50	14,500	14												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
382	3600	1.03	2,770	0.79												
403	3800	1.15	3,600	1.05												
425	4000	1.28	4,400	1.40	3,020	1.20										
445	4200	1.41	5,100	1.70	3,850	1.40										
466	4400	1.54	5,780	2.05	4,590	1.75	3,340	1.40								
488	4600	1.69	6,490	2.40	5,350	2.20	4,190	1.85								
509	4800	1.84	7,060	2.90	6,090	2.60	5,000	2.30	3,820	1.90						
530	5000	2.00	7,670	3.35	6,760	3.05	5,750	2.80	4,660	2.40						
556	5250	2.20	8,330	3.95	7,560	3.70	6,650	3.40	5,630	3.05	4,000	2.65				
584	5500	2.42	9,020	4.65	8,330	4.45	7,470	4.15	6,540	3.80	5,610	3.40	4,620	3.00		
610	5750	2.54	9,560	5.2	8,900	4.95	8,240	4.7	7,460	4.45	6,570	4.15	5,270	3.65		
636	6000	2.87	10,300	6.3	9,700	5.9	9,000	5.7	8,250	5.4	7,430	5.0	6,580	4.65	5,660	4.2
662	6250	3.12	10,900	7.4	10,400	6.9	9,720	6.6	9,050	6.3	8,380	5.9	7,500	5.6	6,650	5.2
690	6500	3.38	11,500	8.3	11,000	7.9	10,400	7.6	9,840	7.3	9,160	6.8	8,380	6.6	7,610	6.2
715	6750	3.63	12,100	9.1	11,600	9	11,100	8.6	10,500	8.3	9,900	8.0	9,200	7.6	8,510	7.2
742	7000	3.91	12,600	10.5	12,200	10	11,700	9.8	11,200	9.4	10,600	9.1	10,000	8.8	9,300	8.3
795	7500	4.50	13,700	13.5	13,400	13	13,000	12.5	12,500	12.0	12,100	11.5	11,500	11.5	10,900	11.0
848	8000	5.11			14,500	16	14,200	15.5	13,800	15.0	13,400	14.5	12,900	14.0	12,400	14.0
900	8500	5.76			15,600	19	15,300	19.0	14,900	18.5	14,600	18.0	14,200	17.5	13,800	17.0
954	9000	6.46			16,600	23	16,400	22.5	16,100	22	15,800	21.5	15,500	21.5	15,100	20.5
1010	9500	7.20					17,500	27	17,200	27	16,900	26	16,600	26	16,400	25
1060	10000	7.98					18,600	32	18,300	31	18,100	31	17,800	30	17,500	30

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
662	6250	3.12	5,780	4.7												
690	6500	3.38	6,760	5.7	5,920	5.2										
715	6750	3.63	7,660	6.7	6,900	6.3										
742	7000	3.91	8,600	7.9	7,920	7.6	6,310	6.5								
795	7500	4.50	10,300	10.5	9,670	10	8,250	9.1	6,830	8.0						
848	8000	5.11	11,900	13.5	11,300	13	10,100	12.0	8,770	11.0	6,000	8.6				
900	8500	5.76	13,400	16.5	12,800	16	11,700	15.5	10,500	14.5	8,040	12.0				
954	9000	6.46	14,700	20.5	14,200	20	13,300	19	12,200	18	9,980	15.5	7,590	13.0		
1010	9500	7.20	16,000	24.5	15,600	24	14,800	23	13,800	22	11,800	20.0	9,590	17.5	7,240	14.5
1060	10000	7.98	17,300	29	16,900	29	16,100	28	15,300	27	13,500	24.5	11,500	22	9,300	19

Single Inlet **Single Width**

70" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
127	1400	0.157	1,920	0.075												
145	1600	0.205	2,820	0.130												
164	1800	0.259	3,600	0.200	1,780	0.125										
182	2000	0.320	4,290	0.290	2,820	0.210										
200	2200	0.387	4,930	0.405	3,740	0.335	2,170	0.23								
218	2400	0.460	5,500	0.51	4,530	0.46	3,210	0.37								
236	2600	0.540	6,060	0.70	5,260	0.61	4,140	0.53	2,820	0.45						
254	2800	0.626	6,620	0.89	5,980	0.80	5,000	0.71	3,840	0.60						
272	3000	0.718	7,160	1.10	6,620	1.00	5,790	0.91	4,760	0.80	3,650	0.68				
291	3200	0.816	7,670	1.35	7,240	1.25	6,500	1.15	5,650	1.05	4,620	0.92	3,500	0.76		
309	3400	0.922	8,220	1.65	7,810	1.55	7,230	1.40	6,460	1.30	5,510	1.20	4,450	1.00	3,480	0.87
327	3600	1.03	8,750	1.95	8,320	1.85	7,850	1.75	7,190	1.60	6,400	1.50	5,430	1.35	4,560	1.20
346	3800	1.15	9,260	2.30	8,940	2.2	8,500	2.10	7,860	1.95	7,190	1.85	6,360	1.70	5,520	1.55
364	4000	1.28	9,780	2.70			9,120	2.50	8,580	2.35	7,960	2.20	7,250	2.10	6,480	1.95
382	4200	1.41	10,300	3.15			9,700	2.90	9,230	2.80	8,720	2.65	8,010	2.50	7,350	2.35
400	4400	1.54	10,800	3.6			10,200	3.35	9,850	3.25	9,400	3.10	8,780	2.95	8,100	2.80
418	4600	1.69	11,300	4.1			10,800	3.90	10,500	3.85	10,100	3.65	9,480	3.45	8,950	3.30
436	4800	1.84	11,800	4.7			11,300	4.45	11,000	4.3	10,600	4.2	10,200	4.0	9,660	3.85
455	5000	2.00	12,300	5.3					11,600	5.0	11,300	4.8	10,900	4.6	10,400	4.45
477	5250	2.20	13,000	6.2					12,300	5.8	12,000	5.6	11,700	5.5	11,200	5.3
500	5500	2.42	13,600	7.1					13,000	6.7	12,700	6.6	12,400	6.4	12,000	6.2
523	5750	2.54	14,200	7.8							13,300	7.2	13,100	7.1	12,700	6.9
545	6000	2.87	14,900	9.3							14,000	8.6	13,900	8.5	13,600	8.3
569	6250	3.12	15,500	10.5									14,600	9.7	14,200	9.5
590	6500	3.38	16,100	12.0									15,300	11	15,000	11.0
614	6750	3.63	16,800	13.5											15,700	12.0
636	7000	3.91	17,400	14.5											16,400	13.5
682	7500	4.50	18,600	18												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
327	3600	1.03	3,560	1.00												
346	3800	1.15	4,610	1.35												
364	4000	1.28	5,650	1.75	3,880	1.50										
382	4200	1.41	6,560	2.20	4,940	1.80										
400	4400	1.54	7,420	2.65	5,900	2.25	4,290	1.85								
418	4600	1.69	8,320	3.1	6,800	2.80	5,380	2.35								
436	4800	1.84	9,070	3.7	7,810	3.35	6,430	2.95	4,900	2.40						
455	5000	2.00	9,850	4.3	8,690	3.95	7,390	3.55	5,990	3.10						
477	5250	2.20	10,700	5.1	9,700	4.75	8,550	4.4	7,220	3.95	5,890	3.4				
500	5500	2.42	11,600	6.0	10,700	5.7	9,590	5.3	8,400	4.85	7,200	4.4	5,950	3.90		
523	5750	2.54	12,300	6.7	11,400	6.4	10,600	6.0	9,600	5.7	8,440	5.3	6,770	4.65		
545	6000	2.87	13,200	8.1	12,500	7.6	11,600	7.3	10,600	6.9	9,540	6.4	8,450	6.0	7,270	5.4
569	6250	3.12	14,000	9.4	13,300	8.9	12,500	8.5	11,600	8.1	10,800	7.6	9,640	7.2	8,540	6.6
590	6500	3.38	14,800	10.5	14,200	10.0	13,300	9.7	12,600	9.4	11,800	8.8	10,800	8.4	9,770	7.9
614	6750	3.63	15,500	12.0	14,900	11.5	14,200	11.0	13,500	10.5	12,700	10.5	11,800	9.7	10,900	9.3
636	7000	3.91	16,200	13.5	15,700	13.0	15,100	12.5	14,400	12.0	13,700	11.5	12,900	11.0	11,900	10.5
682	7500	4.50	17,600	17.5	17,200	16.5	16,600	16	16,100	15.5	15,500	15.0	14,800	14.5	14,000	14.0
726	8000	5.11			18,600	20.5	18,200	20	17,700	19.5	17,200	18.5	16,500	18.0	15,900	17.5
773	8500	5.76			20,000	24.5	19,700	24	19,100	23.5	18,700	23	18,200	22.5	17,700	22
819	9000	6.46			21,400	30	21,000	29	20,700	29	20,300	28	19,900	27	19,300	27
864	9500	7.20					22,400	35	22,100	34	21,700	33	21,400	33	21,000	32
910	10000	7.98					23,900	41	23,500	40	23,200	39	22,800	39	22,500	38

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
569	6250	3.12	7,420	6.0												
590	6500	3.38	8,690	7.3	7,600	6.7										
614	6750	3.63	9,840	8.6	8,860	8.1										
636	7000	3.91	11,000	10.0	10,200	9.7	8,100	8.3								
682	7500	4.50	13,300	13.5	12,400	13.0	10,600	11.5	8,760	10.5						
726	8000	5.11	15,300	17.5	14,500	16.5	13,000	15.5	11,300	14.0	7,700	11.0				
773	8500	5.76	17,200	21.5	16,500	20.5	15,100	19.5	13,500	18.5	10,300	15.5				
819	9000	6.46	18,900	26	18,200	25	17,100	24.5	15,700	23	12,800	20	9,740	17.0		
864	9500	7.20	20,500	32	20,000	31	19,000	30	17,700	28	15,100	26	12,300	22.5	9,290	18.5
910	10000	7.98	22,100	38	21,700	37	20,700	35	19,700	34	17,400	32	14,700	28	11,900	24.5

Single Inlet **Single Width**

80" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
111	1400	0.157	2,600	0.100												
127	1600	0.205	3,820	0.180												
143	1800	0.259	1,870	0.275	2,420	0.175										
159	2000	0.320	5,800	0.395	3,820	0.28										
175	2200	0.387	6,690	0.55	5,070	0.45	2,930	0.315								
191	2400	0.460	7,450	0.73	6,140	0.62	4,350	0.50								
206	2600	0.540	8,210	0.95	7,130	0.83	5,600	0.71	3,820	0.61						
222	2800	0.626	8,960	1.20	8,100	1.10	6,760	0.96	5,200	0.81						
238	3000	0.718	9,700	1.50	8,960	1.35	7,840	1.25	6,150	1.10	4,940	0.92				
255	3200	0.816	10,400	1.85	9,800	1.7	8,800	1.55	7,650	1.40	6,250	1.25	4,750	1.05		
271	3400	0.922	11,100	2.20	10,600	2.1	9,770	1.95	8,750	1.80	7,500	1.60	6,030	1.40	4,710	1.20
286	3600	1.03	11,800	2.65	11,300	2.5	10,600	2.35	9,730	2.20	8,670	2.05	7,350	1.80	6,170	1.65
302	3800	1.15	12,500	3.15	12,100	3	11,500	2.80	10,700	2.60	9,720	2.50	8,620	2.30	7,470	2.1
318	4000	1.28	13,200	3.65			12,300	3.35	11,600	3.15	10,800	3.00	9,830	2.80	8,770	2.6
334	4200	1.41	14,000	4.25			13,100	3.95	12,500	3.75	11,800	3.60	10,900	3.40	9,950	3.2
350	4400	1.54	14,700	4.85			13,800	4.55	13,300	4.4	12,700	4.20	11,900	4.0	11,000	3.8
366	4600	1.69	15,300	5.5			14,600	5.3	14,200	5.2	13,700	4.95	12,800	4.7	12,100	4.5
382	4800	1.84	16,000	6.4			15,300	6	15,000	5.8	14,400	5.7	13,800	5.1	13,100	5.2
398	5000	2.00	16,700	7.2					15,700	6.7	15,200	6.5	14,700	6.2	14,000	6.0
417	5250	2.20	17,500	8.4					16,700	7.8	16,200	7.6	15,800	7.4	15,200	7.1
437	5500	2.42	18,400	9.7					17,600	9.1	17,300	8.9	16,800	8.7	16,300	8.4
457	5750	2.54	19,200	10.5							18,000	9.8	17,700	9.6	17,200	9.3
477	6000	2.87	20,200	12.5							18,900	11.5	18,800	11.5	18,400	11.0
497	6250	3.12	20,900	14									19,700	13	19,200	13.0
516	6500	3.38	21,800	16									20,700	15	20,300	14.5
536	6750	3.63	22,700	18											21,300	16.5
556	7000	3.91	23,500	20											22,200	18.5
596	7500	4.50	25,200	25												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
286	3600	1.03	4,810	1.40												
302	3800	1.15	6,250	1.85												
318	4000	1.28	7,650	2.40	5,250	2.05										
334	4200	1.41	8,870	2.95	6,690	2.45										
350	4400	1.54	10,100	3.55	7,980	3.05	5,800	2.50								
366	4600	1.69	11,300	4.2	9,300	3.8	7,280	3.20								
382	4800	1.84	12,300	5.0	10,600	4.5	8,700	4.00	6,630	3.25						
398	5000	2.00	13,300	5.8	11,800	5.3	10,000	4.85	8,100	4.2						
417	5250	2.20	14,500	6.8	13,100	6.4	11,600	5.9	9,780	5.3	7,980	4.65				
437	5500	2.42	15,700	8.1	14,500	7.7	13,000	7.2	11,400	6.6	9,750	5.9	8,050	5.2		
457	5750	2.54	16,600	9.0	15,500	8.6	14,300	8.2	13,000	7.7	11,400	7.2	9,170	6.3		
477	6000	2.87	17,900	11.0	16,900	10.5	15,700	9.9	14,300	9.3	12,900	8.7	11,400	8.1	9,850	7.3
497	6250	3.12	19,000	13.0	18,000	12.0	16,900	11.5	15,700	11.0	14,600	10.5	13,000	9.7	11,600	9.0
516	6500	3.38	20,000	14.5	19,200	14.0	18,000	13.0	17,100	12.5	15,900	12.0	14,600	11.5	13,200	10.5
536	6750	3.63	21,000	16.5	20,200	15.5	19,300	15.0	18,300	14.5	17,200	14.0	16,000	13.0	14,800	12.5
556	7000	3.91	22,000	18.5	21,300	17.5	20,400	17.0	19,500	16.5	18,500	16.0	17,400	15.0	16,200	14.5
596	7500	4.50	23,800	23	23,300	22.5	22,500	21.5	21,800	21	21,000	20.5	20,000	19.5	19,000	19
636	8000	5.11			25,200	28	24,600	27	23,900	26	23,200	25	22,400	24.5	21,600	24
676	8500	5.76			27,100	33	26,600	33	25,900	32	25,400	31	24,700	30	23,900	30
716	9000	6.46			28,900	40	28,400	39	28,000	39	27,400	28	26,900	37	26,200	36
756	9500	7.20					30,400	47	29,900	46	29,400	45	28,900	44	28,400	44
796	10000	7.98					32,400	56	31,800	54	31,400	54	30,900	52	30,500	52

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
497	6250	3.12	10,100	8.2												
516	6500	3.38	11,800	10.0	10,300	9.1										
536	6750	3.63	13,300	11.5	12,000	11.0										
556	7000	3.91	15,000	13.8	13,800	13.0	11,000	11								
596	7500	4.50	17,900	18.5	16,800	17.5	14,300	16	11,900	14						
636	8000	5.11	20,600	23.5	19,700	22.5	17,500	21	15,200	19	10,400	15				
676	8500	5.76	23,200	29	22,300	28	20,400	27	18,300	25	14,000	21				
716	9000	6.46	25,600	35	24,700	34	23,100	33	21,300	31	17,400	27	13,200	23		
756	9500	7.20	27,800	43	27,100	42	25,700	40	24,000	38	20,500	35	16,700	30	12,600	25
796	10000	7.98	30,000	50	29,300	50	28,000	48	26,700	46	23,500	43	20,000	38	16,200	33

Single Inlet **Single Width**

90" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
99	1400	0.157	3,240	0.125												
113	1600	0.205	4,750	0.22												
128	1800	0.259	6,050	0.34	3,000	0.215										
142	2000	0.320	7,200	0.49	4,750	0.35										
156	2200	0.387	8,300	0.69	6,300	0.56	3,650	0.39								
170	2400	0.460	9,250	0.91	7,630	0.78	5,400	0.62								
184	2600	0.540	10,200	1.20	8,860	1.05	6,960	0.88	4,750	0.76						
198	2800	0.626	11,100	1.50	10,100	1.35	8,400	1.20	6,460	1.00						
212	3000	0.718	12,100	1.85	11,100	1.7	9,750	1.55	8,020	1.35	6,130	1.15				
226	3200	0.816	12,900	2.25	12,200	2.1	11,000	1.95	9,500	1.75	7,780	1.55	5,900	1.30		
240	3400	0.922	13,800	2.75	13,200	2.6	12,200	2.4	10,900	2.20	9,310	2.00	7,490	1.70	5,850	1.45
255	3600	1.03	14,700	3.30	14,000	3.1	13,200	2.9	12,100	2.70	10,800	2.55	9,130	2.25	7,670	2.00
269	3800	1.15	15,600	3.90	15,000	3.7	14,300	3.5	13,200	3.25	12,100	3.10	10,700	2.85	9,280	2.60
284	4000	1.28	16,400	4.55			15,300	4.2	14,100	3.90	13,400	3.75	12,200	3.50	10,900	3.25
297	4200	1.41	17,300	5.3			16,300	4.9	15,500	4.65	14,700	4.15	13,500	4.25	12,400	3.95
311	4400	1.54	18,200	6.0			17,200	5.7	16,600	5.5	15,800	5.2	14,800	4.95	13,600	4.7
325	4600	1.69	19,100	6.9			18,200	6.6	17,700	6.4	17,000	6.1	16,000	5.8	15,100	5.6
339	4800	1.84	19,900	7.9			19,100	7.5	18,600	7.2	17,900	7.0	17,100	6.7	16,300	6.5
354	5000	2.00	20,800	8.9					19,500	8.4	18,900	8.1	18,300	7.8	17,400	7.5
372	5250	2.20	21,800	10.5					20,700	9.7	20,200	9.1	19,600	9.2	18,900	8.8
390	5500	2.42	22,300	12.0					21,300	11.5	21,400	11.0	20,800	11.0	20,200	10.5
407	5750	2.54	23,900	13.0							22,400	12.0	22,000	12.0	21,400	11.5
425	6000	2.87	25,000	15.5							23,500	14.5	23,300	14.5	22,800	14.0
442	6250	3.12	26,000	17.5									24,500	16.5	23,800	16.0
460	6500	3.38	27,100	20.0									25,700	18.5	25,300	18.0
477	6750	3.63	28,200	22.5											26,500	20.5
495	7000	3.91	29,200	24.5											27,600	23
532	7500	4.50	31,400	31												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
255	3600	1.03	5,980	1.70												
269	3800	1.15	7,760	2.30												
284	4000	1.28	9,500	3.00	6,530	2.55										
297	4200	1.41	11,000	3.65	8,310	3.05										
311	4400	1.54	12,500	4.4	9,910	3.8	7,200	3.1								
325	4600	1.69	14,000	5.2	11,600	4.7	9,050	4.0								
339	4800	1.84	15,300	6.2	13,200	5.6	10,800	5.0	8,240	4.05						
354	5000	2.00	16,600	7.2	14,600	6.6	12,400	6.0	10,100	5.2						
372	5250	2.20	18,000	8.5	16,300	8.0	14,400	7.4	12,200	6.6	9,920	5.8				
390	5500	2.42	19,500	10.0	18,000	9.6	16,100	8.9	14,100	8.2	12,100	7.4	9,980	6.5		
407	5750	2.54	20,700	11.0	19,200	10.5	17,800	10.0	16,100	9.6	14,200	8.9	11,400	7.8		
425	6000	2.87	22,300	13.5	21,000	13.0	19,500	12.0	17,800	11.5	16,000	11.0	14,200	10.0	12,200	9.1
442	6250	3.12	23,600	16	22,400	15.0	21,000	14.5	19,600	13.5	18,100	13.0	16,200	12.0	14,400	11.0
460	6500	3.38	24,800	18	23,800	17.0	22,400	16.5	21,300	16.0	19,800	14.5	18,100	14.0	16,400	13.5
477	6750	3.63	26,100	20	25,200	19.5	23,900	18.5	22,700	18.0	21,400	17.5	19,800	16.5	18,400	15.5
495	7000	3.91	27,300	23	26,400	22	25,400	21	24,200	20.5	23,000	19.5	21,600	19.0	20,100	18.0
532	7500	4.50	29,600	29	28,900	28	28,000	27	27,100	26	26,000	25	24,800	21.5	23,600	23.5
566	8000	5.11			31,300	34	30,600	33	29,800	32	28,800	31	27,800	30	26,800	30
601	8500	5.76			33,700	41	33,100	41	32,100	40	31,500	39	30,600	38	29,700	37
636	9000	6.46			36,000	50	35,300	49	34,800	48	34,100	47	33,400	46	32,500	45
672	9500	7.20					37,800	58	37,100	58	36,600	56	35,900	56	35,300	54
708	10000	7.98					40,100	68	39,600	66	39,000	66	38,400	66	37,800	64

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
442	6250	3.12	12,500	10.0												
460	6500	3.38	14,600	12.5	12,800	11.5										
477	6750	3.63	16,600	14.5	14,900	13.5										
495	7000	3.91	18,600	17	17,100	16.5	13,600	14.0								
532	7500	4.50	22,300	23	20,900	22	17,800	19.5	14,700	17.5						
566	8000	5.11	25,700	29	24,400	28	21,800	26	18,900	24	13,000	18.5				
601	8500	5.76	28,900	36	27,700	35	25,400	33	22,800	31	17,400	26				
636	9000	6.46	31,800	44	30,700	43	28,700	41	26,400	39	21,600	34	16,400	29		
672	9500	7.20	34,500	51	33,600	52	31,900	50	29,800	47	25,400	43	20,700	38	15,600	31
708	10000	7.98	37,300	64	36,500	62	34,800	60	33,100	58	29,200	54	24,800	48	20,100	42

Single Inlet

100" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
89	1400	0.157	3,920	0.155												
102	1600	0.205	5,760	0.270												
114	1800	0.259	7,340	0.415	3,640	0.260										
127	2000	0.320	8,750	0.60	5,760	0.425										
140	2200	0.387	10,100	0.83	7,640	0.68	4,420	0.475								
153	2400	0.460	11,200	1.10	9,250	0.94	6,550	0.75								
165	2600	0.540	12,400	1.45	10,800	1.25	8,450	1.05	5,760	0.92						
178	2800	0.626	13,500	1.80	12,200	1.65	10,200	1.45	7,850	1.20						
191	3000	0.718	14,600	2.25	13,500	2.05	11,800	1.85	9,730	1.65	7,440	1.40				
204	3200	0.816	15,700	2.75	14,800	2.55	13,300	2.35	11,500	2.15	9,430	1.90	7,150	1.55		
217	3400	0.922	16,800	3.30	16,000	3.15	14,800	2.90	13,200	2.70	11,300	2.40	9,000	2.10	7,100	1.80
229	3600	1.03	17,800	4.05	17,000	3.75	16,000	3.50	14,700	3.30	13,100	3.05	11,100	2.75	9,300	2.45
242	3800	1.15	18,900	4.75	18,300	4.5	17,400	4.25	16,100	3.95	14,700	3.75	13,000	3.45	11,300	3.15
254	4000	1.28	19,900	5.5			18,600	5.1	17,500	4.75	16,300	4.5	14,800	4.25	13,200	3.95
268	4200	1.41	21,000	6.4			19,800	6.0	18,800	5.7	17,800	5.4	16,400	5.1	15,000	4.8
280	4400	1.54	22,100	7.3			20,900	6.9	20,100	6.6	19,200	6.3	17,900	6.0	16,500	5.7
293	4600	1.69	23,100	8.3			22,100	8.0	21,400	7.8	20,600	7.4	19,400	7.1	18,300	6.8
306	4800	1.84	24,100	9.6			23,100	9.1	22,500	8.8	21,700	8.5	20,800	8.2	19,700	7.8
318	5000	2.00	25,200	11.0					23,600	10.0	23,000	9.8	22,200	9.4	21,100	9.0
334	5250	2.20	26,400	12.5					25,100	12.0	24,400	11.5	23,800	11.0	22,800	10.5
350	5500	2.42	27,800	14.5					26,500	13.5	26,000	13.5	25,300	13.0	24,500	12.5
366	5750	2.54	29,000	16.0							27,200	15.0	26,600	14.5	25,900	14.0
382	6000	2.87	30,400	19.0							28,500	17.5	28,300	17.5	27,700	17.0
398	6250	3.12	31,600	21.5									29,700	20.0	28,900	19.5
414	6500	3.38	32,900	24									31,200	22.5	30,600	22
430	6750	3.63	34,200	27											32,000	25
446	7000	3.91	35,500	30											33,500	28
477	7500	4.50	38,000	37												

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
229	3600	1.03	7,250	2.10												
242	3800	1.15	9,420	2.80												
254	4000	1.28	11,500	3.60	7,910	3.10										
268	4200	1.41	13,400	4.45	10,100	3.70										
280	4400	1.54	15,100	5.4	12,000	4.65	8,740	3.75								
293	4600	1.69	17,000	6.3	14,000	5.7	11,000	4.85								
306	4800	1.84	18,500	7.5	16,000	6.8	13,100	6.0	10,000	4.95						
318	5000	2.00	20,100	8.8	17,700	8.1	15,100	7.3	12,200	6.3						
334	5250	2.20	21,800	10.5	19,800	9.7	17,400	9.0	14,700	8.0	12,000	7.0				
350	5500	2.42	23,600	12.0	21,800	11.5	19,600	11.0	17,100	9.9	14,700	9.0	12,100	7.9		
366	5750	2.54	25,000	13.5	23,300	13.0	21,600	12.5	19,600	11.5	17,200	11.0	13,800	9.5		
382	6000	2.87	27,000	16.5	25,400	15.5	23,600	15.0	21,600	14.0	19,500	13.0	17,200	12.0	14,800	11.0
398	6250	3.12	28,600	19.5	27,200	18	25,500	17.5	23,700	16.5	21,000	15.5	19,000	14.5	17,400	13.5
414	6500	3.38	30,100	22.0	28,900	21	27,200	20.5	25,800	19.0	24,000	18	21,900	17	19,900	16
430	6750	3.63	31,600	21.5	30,500	24	29,000	22.5	27,600	22.0	25,900	21	24,100	20	22,300	19
446	7000	3.91	33,100	28	32,000	27	30,800	26	29,300	24.5	27,900	24	26,200	23	24,400	22
477	7500	4.50	35,900	35	35,100	34	34,000	33	32,800	31	31,600	31	30,100	30	28,700	29
510	8000	5.11			37,900	42	37,200	41	36,100	39	35,000	38	33,700	37	32,500	36
541	8500	5.76			40,800	50	40,100	49	39,000	48	38,200	47	37,200	46	36,000	45
574	9000	6.46			43,600	60	42,900	60	42,200	58	41,400	56	40,500	56	39,400	54
605	9500	7.20					45,800	70	45,000	70	44,300	68	43,500	66	42,900	66
637	10000	7.98					48,800	84	48,000	82	47,300	80	46,600	80	45,900	78

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
398	6250	3.12	15,200	12.5												
414	6500	3.38	17,700	15.0	15,500	13.5										
430	6750	3.63	20,100	17.5	18,100	16.5										
446	7000	3.91	22,600	21	20,800	20	16,500	17								
477	7500	4.50	27,100	28	25,300	26	21,600	24	17,900	21						
510	8000	5.11	31,100	35	29,600	34	26,400	32	23,000	29	15,700	22.5				
541	8500	5.76	35,000	44	33,600	42	30,800	40	27,600	37	21,000	31				
574	9000	6.46	38,500	54	37,200	52	34,800	50	32,000	47	26,200	41	19,900	35		
605	9500	7.20	41,800	64	40,800	62	38,700	60	36,200	58	30,800	52	25,100	46	19,000	38
637	10000	7.98	45,100	76	44,200	74	42,200	72	40,100	70	35,500	64	30,100	58	24,400	50

Single Inlet

110" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
81	1400	0.157	4,950	0.195												
93	1600	0.205	7,270	0.31												
104	1800	0.259	9,260	0.52	4,600	0.325										
116	2000	0.320	11,000	0.75	7,270	0.54										
128	2200	0.387	12,700	1.05	9,640	0.86	5,590	0.60								
139	2400	0.460	14,200	1.40	11,700	1.20	8,290	0.95								
150	2600	0.540	15,600	1.80	13,600	1.60	10,700	1.35	7,270	1.15						
162	2800	0.626	17,100	2.30	15,400	2.05	12,900	1.85	9,870	1.55						
174	3000	0.718	18,500	2.85	17,100	2.60	14,900	2.35	12,300	2.05	9,390	1.75				
185	3200	0.816	19,800	3.5	18,600	3.25	16,800	2.95	14,500	2.70	11,900	2.35	9,030	1.95		
197	3400	0.922	21,200	4.2	20,100	3.95	18,600	3.65	16,600	3.40	14,300	3.05	11,500	2.65	8,970	2.25
208	3600	1.03	22,500	5.1	21,400	4.75	20,200	4.45	18,500	4.15	16,500	3.85	14,000	3.45	10,800	3.1
220	3800	1.15	23,900	6.0	23,000	5.7	21,900	5.4	20,300	5.0	18,500	4.7	16,400	4.35	14,200	4.0
232	4000	1.28	25,200	6.9			23,500	6.4	22,100	6.0	20,500	5.7	18,700	5.4	16,700	5.0
243	4200	1.41	26,500	8.1			25,000	7.5	23,800	7.1	22,500	6.8	20,700	6.5	18,900	6.1
254	4400	1.54	27,900	9.3			26,400	8.2	25,400	8.3	24,200	7.9	22,600	7.6	20,900	7.2
266	4600	1.69	29,200	10.5			27,800	10.0	27,000	9.9	26,000	9.4	24,100	8.9	23,100	8.5
278	4800	1.84	30,400	12.0			29,200	11.5	28,400	11.0	27,400	10.5	26,200	10.5	24,900	9.9
290	5000	2.00	31,800	13.5					29,800	13.0	29,000	12.5	28,000	12.0	26,700	11.5
304	5250	2.20	33,400	16.0					31,700	15.0	30,800	14.5	30,000	14.0	28,800	13.5
318	5500	2.42	35,000	18.5					33,500	17.5	32,800	17.0	31,900	16.5	31,000	16.0
332	5750	2.54	36,600	20							34,300	18.5	33,400	18	32,700	17.5
348	6000	2.87	38,300	24							36,000	22	35,700	22	35,000	21.5
361	6250	3.12	39,800	27									37,400	25	36,400	24.5
376	6500	3.38	41,500	30									39,100	29	38,700	28
390	6750	3.63	43,100	34											40,400	31
405	7000	3.91	44,700	38											42,300	35
435	7500	4.50	48,000	47												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
208	3600	1.03	9,160	2.60												
220	3800	1.15	11,900	3.50												
232	4000	1.28	14,500	4.55	10,000	3.9										
243	4200	1.41	16,900	5.6	12,700	4.7										
254	4400	1.54	19,100	6.8	15,200	5.8	11,000	4.7								
266	4600	1.69	21,400	8.0	17,700	7.2	13,900	6.1								
278	4800	1.84	23,400	9.5	20,100	8.6	16,600	7.6	12,000	6.2						
290	5000	2.00	25,400	11.0	22,400	10.0	19,000	9.2	15,400	8.0						
304	5250	2.20	27,600	13.0	25,000	12.5	22,000	11.5	18,600	10.0	15,200	8.8				
318	5500	2.42	29,800	15.5	27,500	14.5	24,700	13.5	21,600	12.5	18,600	11.5	15,300	10.0		
332	5750	2.54	31,600	17	29,400	16.5	27,200	15.5	24,700	14.5	21,700	13.5	17,400	12.0		
348	6000	2.87	34,100	21	32,100	19.5	29,800	19	27,300	18.0	24,600	16.5	21,700	15.5	18,700	14.0
361	6250	3.12	36,200	24	34,300	23	32,200	22	29,900	20.5	27,700	19.5	24,800	18.5	22,000	17.5
376	6500	3.38	38,000	27	36,400	26	34,300	25	32,500	24	30,300	22.5	27,700	21.5	25,200	20.5
390	6750	3.63	39,900	31	38,500	30	36,600	28	34,800	28	32,700	26	30,400	25	28,200	24
405	7000	3.91	41,800	35	40,400	34	38,800	32	37,000	31	35,200	30	33,100	29	30,800	28
435	7500	4.50	45,300	44	44,300	42	42,900	41	41,400	40	39,800	39	38,000	38	36,200	36
464	8000	5.11			47,900	52	46,800	52	45,600	50	44,200	48	42,500	47	41,000	46
491	8500	5.76			51,500	64	50,600	62	49,200	60	48,300	60	47,000	58	45,500	56
520	9000	6.46			55,000	76	54,000	74	53,300	74	52,200	72	51,100	70	49,800	68
550	9500	7.20					57,800	90	56,900	88	56,000	86	55,000	84	54,100	82
578	10000	7.98					61,500	105	60,600	105	59,600	100	58,900	100	57,900	98

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
361	6250	3.12	19,100	15.5												
376	6500	3.38	22,400	19	19,600	17.5										
390	6750	3.63	25,400	22	22,800	21										
405	7000	3.91	28,100	26	26,200	25	20,900	21.5								
435	7500	4.50	34,100	35	32,000	33	27,300	30	22,600	27						
464	8000	5.11	39,300	44	37,400	43	33,400	40	29,000	36	19,900	28				
491	8500	5.76	44,100	56	42,400	54	38,800	50	34,900	47	26,600	40				
520	9000	6.46	48,600	68	47,000	66	44,000	62	40,500	60	33,000	52	25,100	44		
550	9500	7.20	52,800	82	51,500	80	48,900	76	45,600	72	39,000	66	31,700	58	23,900	48
578	10000	7.98	57,000	96	55,900	94	53,300	92	50,600	88	44,800	82	38,000	74	30,800	64

Single Inlet

120" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
74	1400	0.157	6,740	0.26												
85	1600	0.205	9,890	0.46												
95	1800	0.259	12,600	0.71	6,250	0.445										
100	2000	0.320	15,000	1.00	9,880	0.73										
117	2200	0.387	17,300	1.45	13,100	1.15	7,590	0.81								
127	2400	0.460	19,300	1.90	15,900	1.60	11,300	1.30								
138	2600	0.540	21,300	2.45	18,500	2.15	14,500	1.85	9,890	1.60						
149	2800	0.626	23,200	3.10	20,900	2.80	17,500	2.5	13,500	2.10						
159	3000	0.718	25,100	3.85	23,200	3.55	20,300	3.2	16,700	2.80	12,800	2.35				
170	3200	0.816	26,900	4.75	25,400	4.4	22,800	4.0	19,800	3.65	16,200	3.2	12,300	2.7		
180	3400	0.922	28,800	5.7	27,400	5.4	25,300	5.0	22,600	4.6	19,400	4.2	15,600	3.6	12,100	3.05
191	3600	1.03	30,600	6.9	29,200	6.5	27,500	6.0	25,200	5.6	22,400	5.3	19,000	4.7	16,000	4.2
202	3800	1.15	31,500	8.1	31,300	7.7	29,800	7.3	27,600	6.8	25,200	6.4	22,300	5.9	19,300	5.4
212	4000	1.28	34,200	9.4			32,000	8.7	30,000	8.2	27,900	7.8	25,400	7.3	22,700	6.8
223	4200	1.41	36,100	11.0			34,000	10.0	32,300	9.7	30,600	9.3	28,200	8.8	25,800	8.3
233	4400	1.54	37,900	12.5			35,800	12.0	34,500	11.5	33,000	11.0	30,800	10.5	28,400	9.8
244	4600	1.69	39,700	14.5			37,800	13.5	36,800	13.5	35,400	13.0	33,200	12.0	31,400	11.5
255	4800	1.84	41,300	16.5			39,700	15.5	38,700	15.0	37,300	14.5	35,600	14.0	33,800	13.5
266	5000	2.00	43,200	18.5					40,600	17.5	39,400	17.0	38,000	16.0	36,300	15.5
278	5250	2.20	45,900	21.5					43,100	20.0	42,000	19.5	40,800	19.0	39,200	18.5
292	5500	2.42	47,600	25					45,500	23.5	44,600	23	43,400	22.5	42,100	22
305	5750	2.54	49,700	27							46,700	25	45,800	25	44,500	24
318	6000	2.87	52,100	32							48,900	30	48,500	30	47,500	29
332	6250	3.12	54,100	37									51,000	34	49,600	33
345	6500	3.38	56,400	41									53,500	39	52,600	38
358	6750	3.63	58,600	46											55,000	43
372	7000	3.91	60,900	52											57,600	48
398	7500	4.50	65,300	64												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
191	3600	1.03	12,500	3.55												
202	3800	1.15	16,200	4.8												
212	4000	1.28	19,800	6.2	13,600	5.3										
223	4200	1.41	23,000	7.6	17,500	6.4										
233	4400	1.54	26,000	9.2	20,600	8.0	15,000	6.4								
244	4600	1.69	29,200	11.0	24,000	9.8	18,800	8.3								
255	4800	1.84	31,800	13.0	27,400	11.5	22,500	10.5	17,200	8.5						
266	5000	2.00	34,500	15.0	30,400	14.0	25,900	12.5	21,000	11						
278	5250	2.20	37,500	17.5	34,000	16.5	30,000	15.5	25,300	14	20,600	12.0				
292	5500	2.42	40,600	21.0	37,400	20.0	33,600	18.5	29,400	17	25,200	15.5	20,800	13.5		
305	5750	2.54	43,000	23.5	40,000	22.5	37,000	21	33,600	20	29,500	18.5	23,700	16.5		
318	6000	2.87	46,300	28	43,600	27	40,500	26	37,100	24	33,400	22.5	29,600	21	25,500	19
332	6250	3.12	49,200	33	46,600	31	43,800	30	40,700	28	37,600	27	33,800	25	29,900	23
345	6500	3.38	51,700	37	49,600	36	46,600	34	44,200	33	41,200	31	37,700	30	34,200	28
358	6750	3.63	54,300	42	52,400	40	49,900	39	47,300	37	44,500	36	41,400	34	38,300	33
372	7000	3.91	56,800	48	55,000	46	52,800	44	50,400	42	47,900	41	45,000	39	41,900	38
398	7500	4.50	61,600	60	60,200	58	58,400	56	56,300	54	54,100	52	51,700	52	49,200	49
425	8000	5.11			65,100	72	63,700	70	62,000	68	60,000	66	57,900	64	55,800	62
451	8500	5.76			70,100	86	68,800	84	66,900	82	65,600	80	63,900	78	61,900	76
478	9000	6.46			74,900	105	73,500	100	72,500	100	71,000	98	69,600	96	67,700	94
504	9500	7.20					78,600	120	77,400	120	76,000	115	74,900	115	73,500	115
530	10000	7.98					83,000	145	82,400	140	81,100	140	80,000	135	78,800	135

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¼" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
332	6250	3.12	26,000	21												
345	6500	3.38	30,500	26	26,600	23.5										
358	6750	3.63	34,500	30	31,100	28										
372	7000	3.91	38,700	36	35,600	34	28,400	29								
398	7500	4.50	46,500	47	43,500	45	37,100	41	30,700	36						
425	8000	5.11	53,500	60	50,900	58	45,400	54	39,400	50	27,000	39				
451	8500	5.76	60,100	76	57,700	72	52,800	68	47,400	64	36,100	54				
478	9000	6.46	66,100	92	63,900	90	59,700	86	55,000	80	44,900	70	34,100	60		
504	9500	7.20	71,900	110	70,000	110	66,400	105	62,100	98	53,000	90	43,100	78	32,500	66
530	10000	7.98	77,600	130	76,000	130	72,400	125	68,900	120	60,900	110	51,600	100	41,800	86

Single Inlet **Single Width**

140" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
63	1400	0.157	8,760	0.31												
73	1600	0.205	12,900	0.60												
82	1800	0.259	16,400	0.92	8,130	0.58										
91	2000	0.320	19,500	1.35	12,900	0.95										
100	2200	0.387	22,500	1.85	17,100	1.50	9,870	1.05								
109	2400	0.460	25,100	2.45	20,700	2.10	14,600	1.70								
118	2600	0.540	27,700	3.20	24,000	2.80	18,900	2.40	12,900	2.05						
127	2800	0.626	30,200	4.05	27,300	3.65	22,800	2.25	17,500	2.70						
136	3000	0.718	32,700	5.0	30,200	4.6	26,400	4.15	21,700	3.65	16,600	3.1				
145	3200	0.816	35,000	6.2	33,000	5.7	29,700	5.2	25,700	4.75	21,100	4.2	16,000	3.50		
155	3400	0.922	37,500	7.4	35,600	7.0	32,900	6.5	29,500	6.0	25,200	5.4	20,300	4.65	15,900	4.0
164	3600	1.03	39,800	9.0	38,000	8.4	35,800	7.9	32,800	7.3	29,200	6.8	24,700	6.1	20,800	5.5
173	3800	1.15	42,200	10.5	40,800	10	38,800	9.5	35,800	8.8	32,700	8.3	29,000	7.7	25,200	7.0
182	4000	1.28	44,500	12.5			41,500	11.5	39,100	10.5	36,300	10.0	33,100	9.5	29,500	8.8
191	4200	1.41	47,000	14.5			44,200	13.5	42,000	12.5	39,800	12.0	36,600	11.5	33,500	11.0
200	4400	1.54	49,400	16.5			46,600	15.5	44,900	15.0	42,900	14.0	40,000	13.5	36,900	12.5
209	4600	1.69	51,600	18.5			49,200	18.0	47,800	17.5	46,000	16.5	43,200	15.5	40,800	15.0
218	4800	1.84	53,800	21.5			51,600	20.5	50,300	19.5	48,500	19	46,300	18.5	44,000	17.5
228	5000	2.00	56,300	24					52,800	22.5	51,300	22	49,500	21	47,200	20
239	5250	2.20	59,000	28					56,100	26	54,600	26	53,100	25	51,100	24
250	5500	2.42	62,000	32					59,200	31	58,000	30	56,400	29	54,700	28
261	5750	2.54	64,600	36							60,700	33	59,600	32	58,000	31
273	6000	2.87	67,800	42							63,600	39	63,200	39	61,900	38
284	6250	3.12	70,500	48									66,400	44	64,500	43
296	6500	3.38	73,500	54									69,700	50	68,500	50
307	6750	3.63	76,400	60											71,600	56
318	7000	3.91	79,100	66											74,900	62
341	7500	4.50	85,000	84												

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
164	3600	1.03	16,200	4.65												
173	3800	1.15	21,000	6.2												
182	4000	1.28	25,700	8.1	17,700	6.9										
191	4200	1.41	29,900	9.9	22,500	8.3										
200	4400	1.54	33,800	12.0	26,900	10.5	19,500	8.3								
209	4600	1.69	38,000	14.0	31,300	13.0	24,500	11.0								
218	4800	1.84	41,300	17.0	35,600	15.0	29,300	13.5	22,300	11						
228	5000	2.00	44,900	19.5	39,600	18.0	33,700	16.5	27,300	14						
239	5250	2.20	48,800	23	41,200	21.5	38,900	20	32,900	18	26,900	15.5				
250	5500	2.42	52,800	27	48,700	26	43,700	24	38,300	22	32,800	20	27,100	17.5		
261	5750	2.54	55,900	30	52,000	29	48,100	28	43,700	26	38,500	24	30,900	21		
273	6000	2.87	60,300	37	56,700	35	52,700	33	48,300	31	43,400	29	38,500	27	33,200	24.5
284	6250	3.12	64,000	43	60,700	40	56,900	39	53,000	37	49,000	35	43,900	33	38,900	30
296	6500	3.38	67,300	49	64,500	47	60,600	44	57,600	43	53,600	40	49,000	38	44,500	36
307	6750	3.63	70,600	54	68,100	52	64,800	50	61,500	49	57,900	47	53,800	44	49,800	42
318	7000	3.91	73,900	62	71,600	60	68,600	58	65,500	56	62,200	54	58,500	52	54,500	49
341	7500	4.50	80,200	78	78,400	76	75,900	72	73,200	70	70,500	68	67,300	66	64,000	64
364	8000	5.11			84,700	92	83,000	90	80,600	88	78,100	84	75,400	82	72,500	80
386	8500	5.76			91,100	110	89,500	110	87,100	105	85,500	105	83,100	100	80,500	100
409	9000	6.46			97,400	135	95,600	130	94,300	130	92,400	125	90,500	125	88,000	120
432	9500	7.20					102,000	160	101,000	155	99,000	150	97,500	150	95,600	145
455	10000	7.98					109,000	185	107,000	180	106,000	180	104,000	175	103,000	175

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
284	6250	3.12	33,900	27												
296	6500	3.38	39,600	34	34,600	31										
307	6750	3.63	44,900	39	40,400	37										
318	7000	3.91	50,400	46	46,400	44	37,000	38								
341	7500	4.50	60,400	62	56,500	60	48,300	54	40,000	47						
364	8000	5.11	69,600	80	66,100	76	59,000	70	51,300	64	35,200	50				
386	8500	5.76	78,100	98	75,000	94	68,600	90	61,600	84	47,000	70				
400	9000	6.46	86,100	120	83,100	115	77,700	110	71,500	105	58,400	92	44,400	78		
432	9500	7.20	93,500	145	91,000	140	86,400	135	80,800	130	68,900	115	56,100	100	42,300	84
455	10000	7.98	101,000	170	98,800	165	94,200	160	89,700	155	79,200	145	67,200	130	54,500	115

Single Inlet

160" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1100	0.157	9,850	0.385												
64	1600	0.205	14,500	0.67												
72	1800	0.259	18,400	1.05	9,140	0.65										
79	2000	0.320	22,000	1.50	14,500	1.05										
87	2200	0.387	25,300	2.10	19,200	1.70	11,100	1.20								
95	2400	0.460	28,200	2.75	23,200	2.35	16,500	1.90								
103	2600	0.540	31,100	3.60	27,000	3.15	21,200	2.70	14,500	2.30						
110	2800	0.626	33,900	4.55	30,600	4.1	25,000	3.65	19,700	3.05						
119	3000	0.718	36,700	5.6	34,000	5.2	29,700	4.65	24,400	4.1	18,700	3.45				
127	3200	0.816	39,300	6.9	37,100	6.5	33,300	5.9	28,900	5.3	23,700	4.7	18,000	3.9		
135	3400	0.922	42,100	8.3	40,000	7.9	37,000	7.3	33,100	6.7	28,400	6.1	22,800	5.2	17,800	4.5
143	3600	1.03	44,800	10.0	42,600	9.5	40,200	8.8	36,800	8.3	32,800	7.7	27,800	6.9	23,400	6.2
151	3800	1.15	47,500	12.0	45,800	11.5	43,500	10.5	40,300	9.9	36,800	9.1	32,600	8.6	28,300	7.9
159	4000	1.28	50,000	14.0			46,700	12.5	44,000	12.0	40,800	11.5	37,200	10.5	33,200	9.9
167	4200	1.41	52,800	16.0			49,600	15	47,300	14.0	44,700	13.5	41,100	13.0	37,600	12.0
175	4400	1.54	55,500	18.5			52,400	17	50,400	16.5	48,200	16.0	45,000	15.0	41,500	14.5
183	4600	1.69	58,000	21			55,400	20	53,800	19.5	51,700	18.5	48,500	17.5	45,900	17.0
191	4800	1.84	60,500	24			58,000	23	56,500	22	54,500	21.5	52,100	20.5	49,500	19.5
199	5000	2.00	63,200	27					59,300	25	57,600	24.5	55,600	23.5	53,000	22.5
209	5250	2.20	66,400	32					63,000	29	61,400	29	59,700	28	57,400	27
219	5500	2.42	69,700	37					66,500	34	65,300	34	63,400	33	61,500	32
229	5750	2.54	72,700	40							68,300	37	67,000	36	65,100	35
239	6000	2.87	76,300	47							71,500	41	71,000	44	69,500	42
249	6250	3.12	79,300	54									74,600	50	72,500	49
258	6500	3.38	82,500	60									78,400	57	77,000	56
268	6750	3.63	85,900	68											80,500	62
278	7000	3.91	89,000	76											84,100	70
298	7500	4.50	95,500	94												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
143	3600	1.03	18,200	5.2												
151	3800	1.15	23,600	7.0												
159	4000	1.28	28,900	9.1	19,900	7.8										
167	4200	1.41	33,600	11.0	25,300	9.3										
175	4400	1.51	38,000	13.5	30,200	11.5	21,900	9.4								
183	4600	1.69	42,600	16	35,200	14.5	27,600	12.0								
191	4800	1.84	46,500	19	40,000	17.0	32,900	15.0	25,100	12.5						
199	5000	2.00	50,500	22	44,500	20.0	37,800	18.5	30,600	16						
209	5250	2.20	54,800	26	49,700	24.5	43,700	22.5	37,000	20	30,200	17.5				
219	5500	2.42	59,300	31	54,800	29	49,100	27	43,000	25	36,900	22.5	30,400	20		
229	5750	2.54	62,900	34	58,500	33	54,100	31	49,100	29	43,200	27	34,700	24		
239	6000	2.87	67,700	41	63,800	39	59,200	37	54,200	35	48,900	33	43,200	31	37,300	28
249	6250	3.12	72,000	48	68,200	45	64,000	43	59,500	41	55,000	39	49,400	37	43,800	34
258	6500	3.38	75,500	54	72,500	52	68,200	50	64,700	48	60,300	45	55,100	43	50,000	41
268	6750	3.63	79,400	62	76,600	60	72,900	56	69,100	54	65,000	52	60,500	50	56,000	48
278	7000	3.91	83,000	70	80,500	66	77,100	64	73,600	62	70,000	60	66,000	58	61,200	54
298	7500	4.50	90,100	88	88,000	84	85,300	82	82,300	80	79,200	76	75,600	74	72,000	72
318	8000	5.11			95,400	105	93,200	100	90,500	98	87,900	96	84,700	92	81,600	90
338	8500	5.76			102,000	125	101,000	125	97,900	120	96,000	120	93,500	115	90,500	110
358	9000	6.46			110,000	150	108,000	150	106,000	145	104,000	145	102,000	140	99,000	135
378	9500	7.20					115,000	175	113,000	175	111,000	170	109,000	170	108,000	165
398	10000	7.98					122,000	210	121,000	205	119,000	200	117,000	200	115,000	195

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
249	6250	3.12	38,000	31												
258	6500	3.38	44,500	38	39,000	34										
268	6750	3.63	50,400	44	45,500	42										
278	7000	3.91	56,600	52	52,100	50	41,500	42								
298	7500	4.50	67,900	70	63,600	66	54,200	60	44,400	52						
318	8000	5.11	78,100	88	74,500	86	66,400	80	57,700	72	39,500	56				
338	8500	5.76	87,700	110	84,400	105	77,100	100	69,400	94	52,900	78				
358	9000	6.46	96,700	135	93,400	130	87,400	125	80,500	120	65,600	105	49,900	86		
378	9500	7.20	105,000	160	102,000	160	97,100	150	90,900	145	77,500	130	63,000	115	47,600	96
398	10000	7.98	113,000	195	111,000	190	106,000	180	101,000	175	89,000	160	75,500	145	61,100	125

Single Inlet

180" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
50	1400	0 157	12,300	0 48												
57	1600	0 205	18,100	0 81												
61	1800	0 259	23,000	1.30	11,400	0.81										
71	2000	0 320	27,500	1 85	18,100	1 35										
78	2200	0 387	31,600	2.60	24,000	2 15	13,900	1.50								
85	2400	0 460	35,300	3.45	29,000	2 95	20,600	2.35								
92	2600	0 510	38,900	4 5	33,800	3.95	26,600	3 35	18,100	2 9						
99	2800	0 626	42,500	5.7	38,300	5 1	32,000	4 55	24,600	3.8						
106	3000	0 718	45,900	7.1	42,500	6 5	37,100	5 8	30,600	5 1	23,400	4.35				
113	3200	0 816	49,100	8.7	46,400	8 1	41,700	7.4	36,200	6.7	29,600	5.9	22,500	4.9		
120	3400	0 922	52,600	10 5	50,100	9 8	46,300	9 1	41,400	8.4	35,500	7.6	28,500	6.6	22,300	5.6
127	3600	1 03	56,000	12 5	53,400	12	50,400	11 0	46,000	10.5	41,000	9 6	34,800	8.6	29,200	7.7
135	3800	1 15	59,400	15 0	57,300	14	54,500	13 5	50,400	12.5	46,000	11.5	40,800	11 0	35,400	9 9
141	4000	1 28	62,600	17.5			58,400	16.0	55,000	15 0	51,000	14 0	46,500	13.5	41,500	12.5
149	4200	1.41	66,000	20			62,100	18 5	59,100	18 0	55,900	17.0	51,500	16	47,100	15
156	4400	1 54	69,400	23			65,500	21.5	63,100	21.0	60,300	20 0	56,200	19	52,000	18
163	4600	1 69	72,600	26			69,200	25	67,300	24.5	64,800	23.5	60,800	22	57,400	21
170	4800	1 84	75,600	30			72,600	28	70,700	28	68,100	26	65,200	26	61,900	25
177	5000	2 00	79,100	31					74,200	32	72,100	31	69,600	30	66,400	28
186	5250	2 20	83,000	40					78,900	37	76,800	36	74,600	35	71,800	34
194	5500	2 42	87,200	46					83,300	43	81,600	42	79,400	41	77,000	40
204	5750	2.54	90,900	50							85,300	46	83,700	45	81,400	44
212	6000	2 87	95,400	60							89,500	56	88,900	54	87,000	54
221	6250	3 12	99,100	68									93,400	62	90,600	60
230	6500	3 38	103,000	76									98,000	72	96,400	70
239	6750	3 63	107,000	84											101,000	78
248	7000	3 91	110,000	94											105,000	88
266	7500	4 50	119,000	115												

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
127	3600	1.03	22,800	6.5												
135	3800	1.15	29,600	8 8												
141	4000	1.28	36,200	11.5	24,900	9.7										
149	4200	1.41	42,000	14	31,700	11.5										
156	4400	1 54	47,500	17	37,800	14.5	27,500	11.5								
163	4600	1 69	53,400	20	44,000	18 0	34,400	15								
170	4800	1 84	58,100	24	50,100	21.5	41,200	19	31,400	15.5						
177	5000	2 00	63,000	28	55,700	25	47,300	23	38,400	20						
186	5250	2 20	68,500	32	62,100	30	54,800	28	46,300	25	37,800	22				
194	5500	2 42	74,200	38	68,500	36	61,500	31	53,800	31	46,100	28	38,100	25		
204	5750	2 54	78,600	43	73,100	41	67,700	39	61,500	36	54,000	34	43,500	30		
212	6000	2 87	84,800	52	79,800	49	74,000	47	67,900	44	61,100	41	54,000	38	46,600	35
221	6250	3 12	90,000	60	85,300	56	80,000	54	74,500	52	68,900	49	61,800	46	54,800	42
230	6500	3 38	94,600	68	90,600	66	85,400	62	81,000	60	75,400	56	69,000	54	62,600	50
239	6750	3 63	99,100	76	95,700	74	91,100	70	86,500	68	81,500	66	75,600	62	70,000	60
248	7000	3 91	104,000	86	101,000	84	96,500	80	92,000	78	87,500	74	82,500	72	76,500	68
266	7500	4.50	113,000	110	110,000	105	107,000	100	103,000	98	99,100	96	94,600	94	90,000	90
283	8000	5.11			119,000	130	117,000	125	113,000	125	110,000	120	106,000	115	102,000	115
301	8500	5 76			128,000	160	126,000	155	122,000	150	120,000	145	117,000	145	113,000	140
319	9000	6.46			137,000	190	135,000	185	133,000	185	130,000	180	127,000	175	124,000	170
336	9500	7.20					144,000	220	142,000	220	139,000	215	137,000	210	135,000	205
354	10000	7 98					153,000	260	151,000	255	148,000	250	146,000	250	144,000	245

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
221	6250	3 12	47,600	39												
230	6500	3 38	55,700	47	48,700	43										
239	6750	3.63	63,100	56	56,900	52										
248	7000	3 91	70,800	66	65,200	62	52,000	54								
266	7500	4 50	85,000	86	79,500	84	67,900	74	56,100	66						
283	8000	5 11	97,700	110	93,000	105	83,000	100	72,100	90	49,400	70				
301	8500	5 76	110,000	135	106,000	135	96,500	125	86,800	115	66,100	98				
319	9000	6 46	121,000	165	117,000	165	109,000	155	101,000	150	82,100	130	62,400	110		
336	9500	7 20	132,000	200	128,000	200	122,000	190	114,000	180	96,900	165	78,900	145	59,500	120
354	10000	7.98	142,000	240	139,000	235	133,000	225	126,000	220	111,000	200	94,500	180	76,500	160

Single Inlet

200″ Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
44	1400	0 157	16,400	0.64												
51	1600	0.205	24,000	1.10												
57	1800	0.259	30,600	1.70	15,200	1.10										
64	2000	0.320	36,400	2.50	24,000	1 75										
70	2200	0 387	42,000	3.45	31,900	2 85	18,400	2.00								
76	2400	0 460	46,800	4.6	38,600	3.9	27,400	3.15								
83	2600	0 540	51,600	5.9	44,900	5.2	35,200	4 45	24,000	3.85						
89	2800	0.626	56,400	7 5	50,900	6.8	42,500	6 0	32,700	5 1						
95	3000	0.718	61,000	9.4	56,400	8.6	49,300	7 8	40,500	6.8	31,000	5 8				
102	3200	0.816	65,300	11.5	61,600	10.5	55,400	9.8	48,000	8.9	39,300	7 8	29,800	6.5		
108	3400	0.922	69,900	14.0	66,500	13.0	61,500	12 0	55,000	11 0	47,100	10.0	37,900	8.7	29,600	7 4
115	3600	1.03	74,400	17.0	70,900	15.5	66,900	14 5	61,100	13 5	54,500	13 0	46,200	11.5	38,800	10 0
121	3800	1.15	78,900	19.5	76,000	19	72,400	17 5	67,000	16 5	61,100	15 5	54,100	14 5	47,000	13 0
127	4000	1 28	83,100	23			77,600	21	73,000	20.0	67,800	19.0	61,800	17.5	55,100	16.5
134	4200	1 41	87,600	27			82,500	25	78,500	23.5	74,200	22.5	68,400	21 5	62,500	20
140	4400	1.54	92,000	31			87,000	29	83,700	28	80,000	26	74,700	25	69,000	24
146	4600	1 69	96,400	35			92,000	33	89,300	33	86,000	31	80,700	29	76,100	28
153	4800	1 84	100,000	40			96,400	38	94,000	37	90,500	36	86,500	34	82,200	33
159	5000	2 00	105,000	45					98,500	42	95,800	41	92,500	39	88,000	38
167	5250	2.20	113,000	54					105,000	49	102,000	48	99,200	46	95,400	45
175	5500	2 42	116,000	60					111,000	58	108,000	56	105,000	54	102,000	52
183	5750	2 54	121,000	66							113,000	62	111,000	60	108,000	58
191	6000	2 87	127,000	78							119,000	74	118,000	72	115,000	70
199	6250	3 12	132,000	90									124,000	82	121,000	80
207	6500	3 38	137,000	100									130,000	94	128,000	92
215	6750	3 63	143,000	115											134,000	105
223	7000	3 91	148,000	125											140,000	115
239	7500	4.50	159,000	155												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2¼″ Water 1.30 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch	
115	3600	1.03	30,200	8 7												
121	3800	1 15	39,300	11.5												
127	4000	1 28	48,000	15.0	33,000	13.0										
134	4200	1 41	55,800	18.5	42,000	15.5										
140	4400	1 54	63,100	22 5	50,100	19 5	36,400	15.5								
146	4600	1 69	70,900	26	58,500	24	45,800	20								
153	4800	1 84	77,100	31	66,500	28	54,700	25	41,600	20.5						
159	5000	2 00	83,700	37	74,000	34	62,900	30	50,900	26						
167	5250	2 20	91,000	43	82,600	40	72,700	37	61,500	33	50,100	29				
175	5500	2.42	98,500	52	91,000	48	81,600	45	71,500	41	61,300	37	50,500	33		
183	5750	2.54	105,000	56	97,300	54	90,000	52	81,600	48	71,800	45	57,600	40		
191	6000	2 87	113,000	68	106,000	66	98,400	62	90,000	58	81,000	54	71,900	50	61,900	46
199	6250	3.12	120,000	80	113,000	76	106,000	72	98,900	68	91,500	64	82,000	60	72,700	56
207	6500	3.38	126,000	90	120,000	86	113,000	82	107,000	80	100,000	74	91,500	72	83,100	68
215	6750	3.63	132,000	100	127,000	98	121,000	94	115,000	90	108,000	88	100,000	82	93,000	80
223	7000	3.91	188,000	115	134,000	110	128,000	105	122,000	105	116,000	100	109,000	96	102,000	92
239	7500	4 50	150,000	145	146,000	140	142,000	135	137,000	130	132,000	130	126,000	125	120,000	115
255	8000	5.11			158,000	175	155,000	170	151,000	165	146,000	160	141,000	155	136,000	150
271	8500	5 76			170,000	210	167,000	205	163,000	200	159,000	195	155,000	190	150,000	185
287	9000	6 46			182,000	250	179,000	245	176,000	240	172,000	235	169,000	230	164,000	225
303	9500	7 20					191,000	295	188,000	290	185,000	285	182,000	280	179,000	275
319	10000	7 98					203,000	345	200,000	340	197,000	335	194,000	330	191,000	325

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾″ Water 1.59 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
199	6250	3 12	63,200	52												
207	6500	3 38	73,900	62	64,600	56										
215	6750	3 63	83,700	74	75,500	68										
223	7000	3 91	94,000	86	86,500	82	69,000	70								
239	7500	4 50	113,000	115	106,000	110	90,100	100	74,500	88						
255	8000	5 11	130,000	145	124,000	140	110,000	130	95,800	120	65,500	94				
271	8500	5 76	146,000	180	140,000	175	128,000	170	115,000	155	87,700	130				
287	9000	6.46	161,000	220	155,000	215	145,000	205	134,000	195	109,000	170	82,900	145		
303	9500	7 20	174,000	270	170,000	260	161,000	250	151,000	240	129,000	215	105,000	190	79,000	160
319	10000	7.98	188,000	320	184,000	310	176,000	300	168,000	290	148,000	270	125,000	240	102,000	210

Single Inlet

220" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
40	1400	0.157	20,400	0.80												
46	1600	0.205	30,000	1.40												
52	1800	0.259	38,200	2.15	19,000	1.35										
58	2000	0.320	45,600	3.10	30,000	2.20										
64	2200	0.387	52,500	4.35	39,800	3.55	23,000	2.45								
69	2400	0.460	58,500	5.7	48,200	4.9	34,200	3.95								
75	2600	0.540	64,600	7.4	56,000	6.5	44,000	5.6	30,000	4.8						
81	2800	0.626	70,500	9.4	63,600	8.5	53,100	7.5	40,900	6.3						
87	3000	0.718	76,200	11.5	70,500	11.0	61,600	9.7	50,700	8.5	38,800	7.2				
93	3200	0.816	81,600	14.5	77,000	13.5	69,200	12.0	60,000	11.0	49,100	9.8	37,300	8.1		
98	3400	0.922	87,500	17.5	83,100	16.5	76,900	15.0	68,700	14.0	58,900	12.5	47,300	11	37,100	9.3
104	3600	1.03	92,900	21.0	88,500	19.5	83,600	18.5	76,400	17.0	68,100	16.0	57,700	14	48,500	13.0
110	3800	1.15	98,500	24.5	95,100	23.5	90,500	22	83,700	20.5	76,400	19.5	67,700	18	58,700	16.5
116	4000	1.28	101,000	29			97,000	26	91,300	25	84,700	23.5	77,300	22	69,000	20.5
121	4200	1.41	110,000	31			103,000	31	98,300	30	92,900	28	85,500	27	78,100	25
127	4400	1.54	115,000	38			109,000	36	105,000	34	100,000	33	93,500	31	86,100	30
133	4600	1.69	121,000	44			115,000	42	112,000	41	107,000	39	101,000	37	95,400	35
139	4800	1.84	126,000	50			121,000	47	118,000	46	113,000	44	108,000	43	103,000	41
145	5000	2.00	131,000	56					123,000	52	120,000	52	116,000	49	110,000	47
152	5250	2.20	138,000	66					131,000	62	127,000	60	124,000	58	119,000	56
159	5500	2.42	145,000	76					138,000	72	136,000	70	132,000	68	128,000	66
166	5750	2.54	151,000	82							142,000	78	139,000	76	135,000	72
174	6000	2.87	158,000	98							149,000	92	147,000	90	144,000	88
181	6250	3.12	165,000	110									155,000	105	151,000	100
188	6500	3.38	171,000	125									163,000	120	160,000	115
195	6750	3.63	178,000	140											167,000	130
202	7000	3.91	185,000	155											175,000	145
217	7500	4.50	198,000	195												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
104	3600	1.03	37,800	11.0												
110	3800	1.15	49,100	14.5												
116	4000	1.28	60,000	19	41,300	16.0										
121	4200	1.41	69,700	23	52,000	19.5										
127	4400	1.54	79,000	28	62,600	21	45,600	19.5								
133	4600	1.69	88,600	33	73,000	30	57,100	25								
139	4800	1.84	96,500	39	83,100	36	68,400	32	52,100	26						
145	5000	2.00	105,000	46	92,400	42	78,500	38	63,700	33						
152	5250	2.20	114,000	54	103,000	50	90,900	47	76,900	42	62,600	36				
159	5500	2.42	123,000	64	114,000	60	102,000	56	89,400	52	76,600	47	63,100	41		
166	5750	2.54	131,000	70	122,000	68	112,000	64	102,000	60	89,700	56	72,000	50		
174	6000	2.87	141,000	86	132,000	82	123,000	78	113,000	74	101,000	68	89,700	64	77,400	58
181	6250	3.12	149,000	100	142,000	94	133,000	90	124,000	86	114,000	80	102,000	76	90,900	70
188	6500	3.38	157,000	115	151,000	110	142,000	105	135,000	100	125,000	94	114,000	90	104,000	84
195	6750	3.63	165,000	130	159,000	125	151,000	115	141,000	115	135,000	110	126,000	105	116,000	98
202	7000	3.91	173,000	115	167,000	140	160,000	135	153,000	130	145,000	125	137,000	120	127,000	115
217	7500	4.50	187,000	180	183,000	175	177,000	170	171,000	165	165,000	160	157,000	155	150,000	150
231	8000	5.11			198,000	215	194,000	210	188,000	205	183,000	200	176,000	195	170,000	190
246	8500	5.76			213,000	260	209,000	255	203,000	250	200,000	245	194,000	240	188,000	230
260	9000	6.46			227,000	315	223,000	310	220,000	305	216,000	295	211,000	290	206,000	285
274	9500	7.20					239,000	370	235,000	360	231,000	355	227,000	350	223,000	340
289	10000	7.98					254,000	435	250,000	425	246,000	420	243,000	415	239,000	405

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
181	6250	3.12	79,000	64												
188	6500	3.38	92,500	78	80,000	72										
195	6750	3.63	105,000	92	94,400	86										
202	7000	3.91	118,000	110	108,000	105	86,300	88								
217	7500	4.50	141,000	145	132,000	140	113,000	125	93,100	110						
231	8000	5.11	162,000	185	154,000	180	138,000	165	120,000	150	82,000	115				
246	8500	5.76	183,000	225	175,000	220	160,000	210	144,000	195	110,000	165				
260	9000	6.46	201,000	280	194,000	270	182,000	260	167,000	245	136,000	215	104,000	180		
274	9500	7.20	218,000	335	212,000	330	202,000	315	189,000	300	161,000	270	131,000	240	98,900	195
289	10000	7.98	235,000	400	230,000	390	220,000	375	209,000	365	185,000	335	157,000	300	127,000	265

Single Inlet **Single Width**

240" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
37	1400	0.157	22,800	0.89												
42	1600	0.205	33,500	1.55												
48	1800	0.259	42,600	2.40	21,200	1.50										
53	2000	0.320	50,800	3.45	33,500	2.45										
58	2200	0.387	58,500	4.85	44,400	3.95	25,700	2.75								
63	2400	0.460	65,200	6.4	53,800	5.5	38,100	4.4								
69	2600	0.540	72,000	8.3	62,500	7.3	49,000	6.2	33,500	5.4						
74	2800	0.626	78,500	10.5	71,000	9.5	59,200	8.4	45,500	7.1						
79	3000	0.718	85,100	13.0	78,500	12	68,600	11.0	56,500	9.5	43,200	8.0				
85	3200	0.816	91,000	16.0	85,900	15	77,100	13.5	67,000	12.5	54,800	11.0	41,500	9.1		
90	3400	0.922	97,400	19.5	92,600	18	85,700	17.0	76,600	15.5	65,600	14.0	52,800	12.0	41,300	10.5
96	3600	1.03	104,000	23.5	98,600	22	93,000	20.5	85,200	19	76,000	18.0	64,400	16.0	54,000	14.5
100	3800	1.15	110,000	27	106,000	26	101,000	24.5	93,300	23	85,100	21.5	75,500	20.0	65,400	18.5
106	4000	1.28	116,000	32			108,000	29	102,000	28	94,400	26	86,000	24.5	76,800	23
111	4200	1.41	122,000	37			115,000	35	109,000	33	103,000	31	95,200	30	87,000	28
117	4400	1.54	128,000	43			121,000	40	117,000	38	112,000	37	104,000	35	96,000	33
122	4600	1.69	134,000	48			128,000	46	124,000	45	120,000	43	112,000	41	106,000	39
127	4800	1.84	140,000	56			134,000	52	131,000	52	126,000	50	121,000	47	115,000	45
132	5000	2.00	146,000	62					137,000	58	133,000	56	129,000	54	123,000	52
139	5250	2.20	154,000	74					146,000	68	142,000	66	138,000	64	133,000	62
146	5500	2.42	161,000	84					154,000	80	151,000	78	147,000	76	143,000	74
153	5750	2.54	168,000	92							158,000	86	155,000	84	151,000	82
159	6000	2.87	176,000	110							166,000	100	164,000	100	161,000	98
166	6250	3.12	183,000	125									173,000	115	168,000	115
172	6500	3.38	191,000	140									181,000	130	178,000	130
179	6750	3.63	199,000	155											186,000	145
185	7000	3.91	206,000	175											195,000	165
199	7500	4.50	221,000	215												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
96	3600	1.03	42,100	12												
100	3800	1.15	54,700	16												
106	4000	1.28	67,000	21	46,000	18.0										
111	4200	1.41	77,700	26	58,600	21.5										
117	4400	1.54	88,000	31	69,900	27	50,800	21.5								
122	4600	1.69	98,600	37	81,400	33	63,800	28								
127	4800	1.84	108,000	44	92,800	40	76,200	35	58,000	29						
132	5000	2.00	117,000	52	103,000	47	87,500	42	71,000	37						
139	5250	2.20	127,000	60	115,000	56	101,000	52	85,600	47	69,900	41				
146	5500	2.42	137,000	72	127,000	68	114,000	62	99,500	58	85,500	52	70,500	46		
153	5750	2.54	146,000	80	136,000	76	125,000	72	114,000	68	100,000	62	80,400	56		
159	6000	2.87	157,000	96	148,000	90	137,000	86	126,000	82	113,000	76	100,000	70	86,200	64
166	6250	3.12	167,000	110	158,000	105	148,000	100	138,000	96	127,000	90	114,000	81	101,000	78
172	6500	3.38	175,000	125	168,000	120	158,000	115	150,000	110	189,000	105	128,000	100	116,000	94
179	6750	3.63	184,000	145	177,000	135	169,000	130	160,000	125	151,000	120	140,000	115	130,000	110
185	7000	3.91	192,000	160	186,000	155	179,000	150	170,000	145	162,000	140	153,000	135	142,000	125
199	7500	4.50	209,000	210	204,000	195	197,000	190	190,000	185	183,000	180	175,000	175	167,000	165
212	8000	5.11			221,000	240	216,000	235	210,000	230	203,000	220	196,000	215	189,000	210
226	8500	5.76			237,000	290	233,000	285	226,000	280	222,000	270	216,000	265	209,000	260
239	9000	6.46			254,000	350	249,000	345	245,000	340	240,000	330	236,000	325	229,000	315
252	9500	7.20					266,000	410	282,000	405	258,000	395	253,000	390	249,000	380
265	10000	7.98					283,000	485	279,000	470	275,000	465	271,000	460	266,000	450

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
166	6250	3.12	88,000	72												
172	6500	3.38	103,000	88	90,100	80										
179	6750	3.63	117,000	100	105,000	96										
185	7000	3.91	131,000	120	121,000	115	96,100	98								
199	7500	4.50	157,000	160	147,000	155	126,000	140	104,000	120						
212	8000	5.11	181,000	205	172,000	200	154,000	185	133,000	170	91,400	130				
226	8500	5.76	204,000	255	195,000	245	179,000	235	160,000	215	122,000	180				
239	9000	6.46	224,000	310	216,000	300	202,000	290	186,000	275	152,000	240	115,000	200		
252	9500	7.20	243,000	375	237,000	365	225,000	350	210,000	330	179,000	300	146,000	265	110,000	220
265	10000	7.98	263,000	445	257,000	435	245,000	420	233,000	405	206,000	375	175,000	335	142,000	295

Single Inlet

260″ Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
34	1400	0.157	26,400	1.05												
39	1600	0.205	38,800	1.8												
44	1800	0.259	49,400	2.9	24,500	1.75										
49	2000	0.320	58,900	4.0	38,800	2.85										
54	2200	0.387	67,800	5.6	51,500	4.6	29,800	3.2								
59	2400	0.460	75,600	7.4	62,400	6.3	44,100	5.1								
64	2600	0.540	83,400	9.6	72,400	8.4	56,900	7.2	38,800	6.2						
69	2800	0.626	91,000	12.0	82,200	11.0	68,600	9.7	52,800	8.2						
73	3000	0.718	98,500	15.0	91,000	14.0	79,500	12.5	65,500	11.0	50,100	9.3				
78	3200	0.816	105,000	18.5	99,500	17.5	89,400	16.0	77,600	14.5	63,500	12.5	48,100	10.5		
83	3400	0.922	113,000	22.5	107,000	21	99,300	19.5	88,800	18	76,100	16.5	61,200	14.1	47,900	12.0
88	3600	1.03	120,000	27	114,000	25	108,000	24	98,700	22	88,000	20.5	74,600	18.5	62,700	16.5
93	3800	1.15	127,000	32	123,000	30	117,000	29	108,000	27	98,700	25	87,500	23	75,900	21
98	4000	1.28	134,000	37			125,000	34	118,000	32	109,000	30	99,700	29	89,000	27
103	4200	1.41	142,000	43			133,000	40	127,000	38	120,000	36	110,000	35	101,000	32
108	4400	1.54	149,000	49			141,000	46	135,000	45	129,000	42	121,000	40	111,000	38
113	4600	1.69	156,000	56			149,000	54	144,000	52	139,000	50	130,000	47	123,000	46
117	4800	1.84	162,000	64			156,000	62	152,000	60	146,000	58	140,000	56	133,000	52
122	5000	2.00	170,000	72					159,000	68	155,000	66	149,000	64	112,000	60
129	5250	2.20	178,000	84					169,000	80	165,000	78	160,000	76	154,000	72
135	5500	2.42	187,000	98					179,000	92	175,000	90	170,000	88	165,000	86
141	5750	2.54	195,000	105							183,000	100	180,000	98	175,000	94
147	6000	2.87	204,000	125							192,000	120	191,000	115	187,000	115
153	6250	3.12	213,000	145									200,000	135	195,000	130
159	6500	3.38	221,000	160									210,000	155	206,000	150
165	6750	3.63	230,000	180											216,000	165
171	7000	3.91	239,000	200											226,000	190
184	7500	4.50	256,000	250												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2¼″ Water 1.30 ozs. per sq. inch		Static Pressure 2½″ Water 1.46 ozs. per sq. inch	
88	3600	1.03	48,900	14.0												
93	3800	1.15	63,500	19.0												
98	4000	1.28	77,600	24.5	53,400	21										
103	4200	1.41	90,100	30	67,900	25										
108	4400	1.54	102,000	36	81,000	31	58,900	25								
113	4600	1.69	114,000	43	94,400	38	73,900	33								
117	4800	1.84	125,000	50	108,000	46	88,300	41	67,400	33						
122	5000	2.00	135,000	60	119,000	54	102,000	49	82,300	43						
129	5250	2.20	147,000	70	133,000	66	117,000	60	99,300	54	81,000	47				
135	5500	2.42	159,000	82	147,000	78	132,000	72	115,000	66	99,000	60	81,500	54		
141	5750	2.54	169,000	92	157,000	88	145,000	84	132,000	78	116,000	72	93,000	64		
147	6000	2.87	182,000	110	171,000	105	159,000	100	146,000	94	131,000	88	116,000	82	100,000	74
153	6250	3.12	193,000	130	183,000	120	172,000	115	160,000	110	148,000	105	132,000	98	117,000	90
159	6500	3.38	203,000	145	195,000	140	183,000	135	174,000	130	162,000	120	148,000	115	134,000	110
165	6750	3.63	213,000	165	205,000	160	196,000	150	186,000	145	175,000	140	162,000	135	150,000	130
171	7000	3.91	223,000	185	216,000	180	207,000	175	197,000	165	188,000	160	177,000	155	164,000	145
184	7500	4.50	242,000	235	236,000	225	229,000	220	221,000	210	212,000	205	203,000	200	193,000	195
196	8000	5.11			256,000	280	250,000	275	243,000	265	236,000	255	227,000	250	219,000	245
208	8500	5.76			275,000	340	270,000	330	263,000	325	258,000	315	250,000	305	243,000	300
220	9000	6.46			294,000	410	289,000	400	284,000	390	279,000	385	273,000	375	266,000	365
233	9500	7.20					308,000	475	303,000	470	298,000	460	294,000	450	288,000	440
245	10000	7.98					328,000	560	323,000	545	318,000	540	314,000	530	309,000	520

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾″ Water 1.59 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
153	6250	3.12	102,000	82												
159	6500	3.38	119,000	100	104,000	92										
165	6750	3.63	135,000	120	122,000	110										
171	7000	3.91	152,000	140	140,000	135	111,000	115								
184	7500	4.50	182,000	185	171,000	180	146,000	160	120,000	140						
196	8000	5.11	210,000	235	200,000	230	178,000	215	155,000	195	106,000	150				
208	8500	5.76	236,000	295	226,000	285	207,000	270	186,000	250	142,000	210				
220	9000	6.46	259,000	360	251,000	350	234,000	335	216,000	315	176,000	280	134,000	235		
233	9500	7.20	282,000	435	275,000	425	261,000	405	244,000	385	208,000	350	169,000	310	128,000	255
245	10000	7.98	304,000	515	298,000	505	284,000	485	270,000	470	239,000	435	203,000	390	164,000	340

Single Inlet # 280" Steel Plate Fan—Design 1 **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
32	1400	0.157	30,800	1.20												
36	1600	0.205	45,300	2.10												
41	1800	0.259	57,600	3.25	28,600	2.05										
45	2000	0.320	68,700	4.7	45,300	3.35										
50	2200	0.387	79,000	6.5	60,000	5.3	34,800	3.7								
55	2400	0.460	88,200	8.6	72,600	7.4	51,500	5.9								
59	2600	0.540	97,300	11.0	81,500	9.8	66,400	8.4	45,200	7.3						
64	2800	0.626	106,000	14.0	95,800	13.0	80,000	11.5	61,600	9.5						
68	3000	0.718	115,000	17.5	106,000	16.0	92,800	14.5	76,400	13.0	58,500	11.0				
73	3200	0.816	123,000	21.5	116,000	20.0	104,000	18.5	90,500	16.5	74,100	14.5	56,200	12.0		
77	3400	0.922	132,000	26	125,000	21.5	116,000	23	104,000	21	88,800	19	71,400	16.5	55,800	14.0
82	3600	1.03	140,000	32	133,000	30	126,000	28	115,000	26	103,000	24	87,000	21.5	73,100	19.5
86	3800	1.15	148,000	37	143,000	35	136,000	33	126,000	31	115,000	29	102,000	27	88,500	25
90	4000	1.28	157,000	43			146,000	40	138,000	37	128,000	36	116,000	33	104,000	31
95	4200	1.41	165,000	50			155,000	47	148,000	44	140,000	42	129,000	40	118,000	38
100	4400	1.54	173,000	58			164,000	54	158,000	52	151,000	49	141,000	47	130,000	45
105	4600	1.69	182,000	66			173,000	62	168,000	62	162,000	58	152,000	56	144,000	54
109	4800	1.84	189,000	76			182,000	72	177,000	70	171,000	68	163,000	64	155,000	62
114	5000	2.00	198,000	86					186,000	80	181,000	76	174,000	74	166,000	72
119	5250	2.20	208,000	100					197,000	92	192,000	90	187,000	88	180,000	84
125	5500	2.42	218,000	115					208,000	110	204,000	105	198,000	105	193,000	100
131	5750	2.54	227,000	125							214,000	115	210,000	115	204,000	110
136	6000	2.87	239,000	150							221,000	140	222,000	135	218,000	135
142	6250	3.12	248,000	170									234,000	155	227,000	160
148	6500	3.38	258,000	190									245,000	180	241,000	175
153	6750	3.63	269,000	210											252,000	195
159	7000	3.91	278,000	235											263,000	220
170	7500	4.50	299,000	290												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
82	3600	1.03	57,000	16.5												
86	3800	1.15	74,000	22												
90	4000	1.28	90,500	28	62,200	24.5										
95	4200	1.41	105,000	35	79,200	29										
100	4400	1.54	119,000	42	94,500	36	68,700	29								
105	4600	1.69	134,000	50	110,000	45	86,200	38								
109	4800	1.84	145,000	60	125,000	54	103,000	48	78,500	39						
114	5000	2.00	158,000	70	139,000	64	118,000	58	96,000	50						
119	5250	2.20	171,000	82	155,000	76	137,000	70	116,000	62	94,500	54				
125	5500	2.42	186,000	96	171,000	92	154,000	86	135,000	78	116,000	70	95,100	62		
131	5750	2.54	197,000	105	183,000	100	169,000	96	154,000	92	135,000	84	109,000	74		
136	6000	2.87	212,000	130	200,000	125	185,000	115	170,000	110	153,000	105	135,000	96	117,000	88
142	6250	3.12	225,000	150	214,000	140	200,000	135	186,000	130	172,000	120	154,000	115	137,000	105
148	6500	3.38	237,000	170	227,000	165	213,000	155	202,000	150	189,000	140	172,000	135	157,000	125
153	6750	3.63	248,000	195	240,000	185	228,000	175	216,000	170	204,000	165	189,000	155	175,000	150
159	7000	3.91	260,000	220	252,000	210	242,000	200	230,000	195	219,000	185	206,000	180	191,000	170
170	7500	4.50	282,000	275	276,000	265	267,000	255	258,000	245	248,000	240	237,000	235	225,000	225
182	8000	5.11			298,000	325	292,000	320	284,000	305	275,000	300	265,000	290	255,000	285
193	8500	5.76			320,000	395	315,000	390	306,000	375	300,000	370	292,000	360	283,000	350
205	9000	6.46			342,000	475	336,000	465	332,000	455	325,000	445	318,000	440	310,000	425
216	9500	7.20					360,000	555	354,000	545	348,000	535	342,000	525	336,000	515
227	10000	7.98					383,000	655	377,000	640	371,000	630	366,000	620	361,000	610

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.87 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
142	6250	3.12	119,000	96												
148	6500	3.38	139,000	120	122,000	105										
153	6750	3.63	158,000	140	142,000	130										
159	7000	3.91	177,000	165	163,000	155	130,000	135								
170	7500	4.50	212,000	215	199,000	210	170,000	185	140,000	165						
182	8000	5.11	244,000	275	233,000	270	208,000	250	181,000	225	124,000	175				
193	8500	5.76	275,000	345	264,000	330	242,000	315	217,000	295	165,000	245				
205	9000	6.46	302,000	420	292,000	410	274,000	390	252,000	370	205,000	325	156,000	270		
216	9500	7.20	329,000	505	320,000	495	304,000	475	284,000	450	242,000	410	197,000	360	149,000	300
227	10000	7.98	355,000	600	347,000	590	332,000	565	316,000	550	278,000	505	236,000	465	191,000	395

Single Inlet

300" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
30	1400	0.157	34,600	1.35												
34	1600	0.205	50,700	2.35												
38	1800	0.259	64,600	3.65	32,000	2.30										
42	2000	0.320	77,000	5.2	50,700	3.75										
47	2200	0.387	88,600	7.3	67,300	6.0	38,900	4.15								
51	2400	0.460	98,800	9.7	81,500	8.3	57,700	6.6								
55	2600	0.540	109,000	12.5	94,600	11.0	71,400	9.4	50,700	8.1						
59	2800	0.626	119,000	16.0	107,000	11.5	89,700	12.5	69,000	10.5						
61	3000	0.718	129,000	20.0	119,000	18.0	104,000	16.5	85,600	14.5	65,500	12.0				
68	3200	0.816	138,000	21.5	130,000	22.5	117,000	20.5	101,000	19.0	83,000	16.5	63,000	13.5		
72	3400	0.922	148,000	29	140,000	28	130,000	26	116,000	23.5	99,500	21.5	80,000	18.5	62,500	15.5
76	3600	1.03	157,000	35	150,000	33	141,000	31	129,000	29	115,000	27	97,500	24	81,900	21.5
81	3800	1.15	166,000	42	161,000	40	153,000	37	141,000	35	129,000	33	111,000	30	99,100	28
85	4000	1.28	175,000	48			164,000	45	154,000	42	143,000	40	130,000	37	116,000	35
89	4200	1.41	185,000	56			174,000	52	166,000	50	157,000	47	144,000	45	132,000	42
93	4400	1.54	194,000	64			184,000	60	177,000	58	169,000	56	158,000	52	146,000	50
98	4600	1.69	204,000	74			194,000	70	189,000	68	181,000	66	170,000	62	161,000	60
102	4800	1.84	212,000	84			201,000	80	198,000	78	191,000	76	183,000	72	174,000	68
106	5000	2.00	222,000	96					208,000	90	202,000	86	195,000	82	186,000	80
111	5250	2.20	233,000	110					221,000	105	215,000	100	209,000	98	201,000	94
117	5500	2.42	244,000	130					233,000	120	229,000	120	222,000	115	216,000	110
122	5750	2.54	255,000	140							239,000	130	235,000	125	228,000	125
127	6000	2.87	267,000	165							251,000	155	249,000	155	244,000	150
133	6250	3.12	278,000	190									262,000	175	254,000	170
138	6500	3.38	289,000	210									275,000	200	270,000	195
143	6750	3.63	301,000	240											282,000	220
148	7000	3.91	312,000	265												
159	7500	4.50	335,000	330												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1¼" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
76	3600	1.03	63,900	18.5												
81	3800	1.15	83,000	24.5												
85	4000	1.28	101,000	32	69,700	27										
89	4200	1.41	118,000	39	88,700	33										
93	4400	1.54	133,000	47	106,000	41	77,000	33								
98	4600	1.69	150,000	56	123,000	50	96,500	43								
102	4800	1.84	163,000	66	140,000	60	115,000	54	88,000	43						
106	5000	2.00	177,000	78	156,000	70	133,000	64	108,000	56						
111	5250	2.20	192,000	90	174,000	86	153,000	78	130,000	70	106,000	62				
117	5500	2.42	208,000	110	192,000	100	172,000	96	151,000	88	129,000	78	107,000	70		
122	5750	2.54	220,000	120	205,000	115	190,000	110	172,000	100	151,000	96	122,000	84		
127	6000	2.87	238,000	145	224,000	135	208,000	130	190,000	125	171,000	115	152,000	105	131,000	96
133	6250	3.12	252,000	170	239,000	160	224,000	150	209,000	145	193,000	135	173,000	130	153,000	120
138	6500	3.38	265,000	190	254,000	185	239,000	175	227,000	170	211,000	155	193,000	150	175,000	140
143	6750	3.63	278,000	215	268,000	205	256,000	200	243,000	190	228,000	185	212,000	175	196,000	165
148	7000	3.91	291,000	245	282,000	235	271,000	225	258,000	215	245,000	210	231,000	200	214,000	190
159	7500	4.50	316,000	305	309,000	295	299,000	285	289,000	275	278,000	270	265,000	260	252,000	250
170	8000	5.11			334,000	365	327,000	355	318,000	345	308,000	335	297,000	325	286,000	320
180	8500	5.76			359,000	440	353,000	435	343,000	425	336,000	415	328,000	400	317,000	390
191	9000	6.46			384,000	535	377,000	520	372,000	510	364,000	500	357,000	490	347,000	480
201	9500	7.20					403,000	620	397,000	610	390,000	600	384,000	590	377,000	575
212	10000	7.98					429,000	735	423,000	715	416,000	705	410,000	695	404,000	685

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
133	6250	3.12	133,000	110												
138	6500	3.38	156,000	130	137,000	120										
143	6750	3.63	177,000	155	159,000	145										
148	7000	3.91	198,000	185	188,000	175	146,000	150								
159	7500	4.50	238,000	245	223,000	235	190,000	210	157,000	185						
170	8000	5.11	274,000	310	261,000	300	233,000	280	202,000	255	139,000	200				
180	8500	5.76	308,000	385	296,000	370	271,000	355	243,000	330	185,000	275				
191	9000	6.46	339,000	470	328,000	455	306,000	435	282,000	415	230,000	365	175,000	305		
201	9500	7.20	368,000	565	359,000	555	340,000	530	319,000	505	272,000	460	221,000	400	167,000	335
212	10000	7.98	398,000	675	389,000	660	372,000	635	354,000	615	312,000	565	265,000	510	214,000	445

Single Inlet **Single Width**

320" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
28	1400	0.157	39,000	1.50												
32	1600	0.205	57,200	2.65												
36	1800	0.259	73,000	4.1	36,200	2.6										
40	2000	0.320	86,900	5.9	57,200	4.2										
44	2200	0.387	100,000	8.3	76,000	6.8	44,000	4.7								
48	2400	0.460	112,000	11.0	92,000	9.4	65,100	7.5								
52	2600	0.540	123,000	14.0	107,000	12.5	83,900	10.5	57,200	9.2						
56	2800	0.626	134,000	18.0	121,000	16.0	101,000	14.5	78,000	12.0						
60	3000	0.718	145,000	22.5	134,000	20.5	117,000	18.5	96,700	16.5	74,000	13.5				
64	3200	0.816	156,000	27	147,000	26	132,000	23.5	115,000	21	93,800	18.5	71,100	15.5		
68	3400	0.922	167,000	33	159,000	31	147,000	29	131,000	27	112,000	24	90,300	21	70,600	17.5
72	3600	1.03	177,000	40	169,000	37	159,000	35	146,000	33	130,000	30	110,000	27	92,500	24.5
76	3800	1.15	188,000	47	181,000	45	173,000	42	160,000	39	146,000	37	129,000	34	112,000	31
80	4000	1.28	198,000	54			185,000	50	174,000	47	162,000	45	147,000	42	131,000	39
84	4200	1.41	209,000	64			197,000	60	187,000	56	177,000	54	163,000	52	149,000	48
88	4400	1.54	220,000	72			207,000	68	200,000	66	191,000	62	178,000	60	164,000	56
92	4600	1.69	230,000	82			219,000	80	213,000	78	205,000	74	192,000	70	182,000	68
96	4800	1.84	239,000	96			230,000	90	224,000	88	216,000	84	206,000	82	196,000	78
100	5000	2.00	250,000	110					235,000	100	228,000	98	220,000	94	210,000	90
104	5250	2.20	263,000	125					250,000	115	243,000	115	236,000	110	227,000	105
109	5500	2.42	276,000	145					264,000	135	258,000	135	251,000	130	244,000	125
114	5750	2.54	288,000	160							270,000	145	265,000	145	258,000	140
119	6000	2.87	302,000	190							284,000	175	281,000	175	275,000	170
124	6250	3.12	314,000	215									295,000	195	287,000	190
129	6500	3.38	325,000	240									310,000	225	305,000	220
134	6750	3.63	340,000	270											318,000	245
139	7000	3.91	352,000	295											333,000	280
149	7500	4.50	378,000	370												

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
72	3600	1.03	72,100	20.5												
76	3800	1.15	93,600	28												
80	4000	1.28	115,000	36	78,700	31										
84	4200	1.41	133,000	44	100,000	37										
88	4400	1.54	150,000	54	120,000	46	86,900	37								
92	4600	1.69	169,000	62	139,000	56	109,000	48								
96	4800	1.84	184,000	74	159,000	68	130,000	60	99,400	49						
100	5000	2.00	200,000	88	176,000	80	150,000	72	121,000	62						
104	5250	2.20	217,000	100	197,000	96	173,000	90	147,000	80	120,000	70				
109	5500	2.42	235,000	120	217,000	115	194,000	110	170,000	98	146,000	90	120,000	78		
114	5750	2.54	249,000	135	232,000	130	214,000	125	195,000	115	171,000	105	137,000	94		
119	6000	2.87	268,000	165	253,000	155	234,000	150	215,000	140	193,000	130	171,000	120	148,000	110
124	6250	3.12	285,000	190	270,000	180	253,000	170	236,000	165	218,000	155	195,000	145	173,000	135
129	6500	3.38	299,000	215	287,000	205	270,000	195	256,000	190	238,000	175	218,000	170	198,000	160
134	6750	3.63	314,000	245	303,000	235	288,000	225	274,000	215	258,000	210	239,000	200	222,000	190
139	7000	3.91	328,000	275	318,000	265	306,000	255	292,000	245	277,000	235	261,000	230	242,000	215
149	7500	4.50	357,000	345	349,000	335	338,000	325	326,000	315	314,000	305	299,000	295	285,000	285
159	8000	5.11			377,000	415	360,000	405	359,000	390	348,000	380	335,000	365	323,000	360
169	8500	5.76			405,000	500	398,000	490	387,000	475	380,000	465	370,000	455	358,000	445
179	9000	6.46			434,000	600	426,000	585	420,000	580	411,000	565	403,000	555	392,000	540
189	9500	7.20					455,000	700	448,000	690	440,000	675	433,000	665	426,000	650
199	10000	7.98					485,000	825	477,000	810	470,000	795	461,000	785	450,000	775

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
124	6250	3.12	151,000	120												
129	6500	3.38	176,000	150	154,000	135										
134	6750	3.63	200,000	175	180,000	165										
139	7000	3.91	224,000	205	206,000	195	164,000	170								
149	7500	4.50	269,000	275	252,000	265	215,000	235	178,000	210						
159	8000	5.11	309,000	350	294,000	340	263,000	315	228,000	285	156,000	225				
169	8500	5.76	348,000	435	334,000	420	306,000	400	275,000	370	209,000	310				
179	9000	6.46	383,000	530	370,000	515	346,000	495	319,000	470	260,000	410	198,000	345		
189	9500	7.20	416,000	640	405,000	625	384,000	600	360,000	570	307,000	520	250,000	455	188,000	375
199	10000	7.98	449,000	765	440,000	745	420,000	715	399,000	695	352,000	640	299,000	575	242,000	500

Single Inlet **Single Width**

360" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
25	1400	0.157	50,500	1.95												
28	1600	0.205	74,100	3.15												
32	1800	0.259	91,400	5.3	46,800	3.35										
35	2000	0.320	113,000	7.7	74,100	5.5										
39	2200	0.387	130,000	10.5	98,400	8.7	56,900	6.1								
42	2400	0.460	141,000	14.0	119,000	12	84,400	9.7								
46	2600	0.540	159,000	18.5	138,000	16	109,000	14.0	74,100	12.0						
50	2800	0.626	174,000	23	157,000	21	131,000	18.5	101,000	15.5						
53	3000	0.718	188,000	29	174,000	27	152,000	24	125,000	21	95,700	18				
57	3200	0.816	202,000	35	190,000	33	171,000	30	148,000	27	121,000	24	92,000	20		
60	3400	0.922	216,000	43	205,000	40	190,000	37	170,000	35	145,000	31	117,000	27	91,500	23
64	3600	1.03	230,000	52	219,000	48	206,000	45	189,000	42	168,000	39	143,000	35	120,000	32
67	3800	1.15	243,000	60	235,000	58	224,000	54	207,000	50	189,000	48	167,000	44	145,000	41
71	4000	1.28	257,000	70			240,000	66	225,000	62	209,000	58	191,000	54	170,000	50
74	4200	1.41	270,000	82			255,000	76	242,000	72	229,000	70	211,000	66	193,000	62
78	4400	1.54	284,000	91			208,000	88	258,000	86	217,000	80	231,000	78	213,000	74
81	4600	1.69	298,000	105			284,000	105	276,000	100	265,000	96	249,000	90	235,000	88
85	4800	1.84	310,000	125			298,000	115	290,000	115	279,000	110	267,000	105	254,000	100
88	5000	2.00	324,000	140					304,000	130	296,000	125	285,000	120	272,000	115
93	5250	2.20	340,000	160					323,000	150	315,000	145	306,000	145	294,000	140
97	5500	2.42	357,000	185					341,000	175	334,000	175	325,000	170	316,000	165
102	5750	2.51	372,000	205							350,000	190	343,000	185	334,000	180
106	6000	2.87	391,000	245									364,000	225	356,000	220
111	6250	3.12	406,000	275									382,000	255	372,000	250
115	6500	3.38	423,000	310									401,000	290	394,000	285
119	6750	3.63	440,000	350											412,000	320
124	7000	3.91	456,000	385											431,000	360
133	7500	4.50	490,000	480												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
64	3600	1.03	93,300	27												
67	3800	1.15	121,000	36												
71	4000	1.28	148,000	47	102,000	40										
74	4200	1.41	172,000	58	130,000	48										
78	4400	1.54	195,000	70	155,000	60	113,000	48								
81	4600	1.69	219,000	82	180,000	74	141,000	62								
85	4800	1.84	238,000	98	205,000	88	169,000	78	129,000	64						
88	5000	2.00	258,000	115	228,000	105	194,000	94	157,000	82						
93	5250	2.20	281,000	135	255,000	125	224,000	115	190,000	105	155,000	90				
97	5500	2.42	304,000	160	281,000	150	252,000	140	220,000	130	189,000	115	156,000	100		
102	5750	2.54	322,000	175	300,000	165	278,000	160	252,000	150	222,000	140	178,000	120		
106	6000	2.87	347,000	210	327,000	200	304,000	190	278,000	180	250,000	170	222,000	155	191,000	140
111	6250	3.12	369,000	250	350,000	235	328,000	220	305,000	210	282,000	200	253,000	190	224,000	175
115	6500	3.38	388,000	280	372,000	270	350,000	255	332,000	245	309,000	230	282,000	220	257,000	210
119	6750	3.63	406,000	315	392,000	305	374,000	290	354,000	280	331,000	270	310,000	255	287,000	245
124	7000	3.91	425,000	355	412,000	340	396,000	330	377,000	315	359,000	305	338,000	295	314,000	280
133	7500	4.50	462,000	445	451,000	430	437,000	420	422,000	405	406,000	395	388,000	380	369,000	370
141	8000	5.11			489,000	535	478,000	520	465,000	505	450,000	490	434,000	415	418,000	465
150	8500	5.76			525,000	645	516,000	635	501,000	620	492,000	605	479,000	585	464,000	575
159	9000	6.46			561,000	780	551,000	760	543,000	750	532,000	730	521,000	715	507,000	700
168	9500	7.20					590,000	910	580,000	895	570,000	875	561,000	860	551,000	845
177	10000	7.98					627,000	1070	617,000	1050	608,000	1030	600,000	1020	590,000	1000

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
111	6250	3.12	195,000	160												
115	6500	3.38	228,000	195	200,000	175										
119	6750	3.63	258,000	225	233,000	215										
124	7000	3.91	290,000	265	267,000	255	213,000	220								
133	7500	4.50	348,000	355	326,000	340	278,000	305	230,000	270						
141	8000	5.11	400,000	455	382,000	440	340,000	410	296,000	370	202,000	290				
150	8500	5.76	450,000	560	432,000	545	396,000	515	355,000	480	271,000	405				
159	9000	6.46	495,000	685	479,000	670	448,000	640	412,000	605	336,000	530	256,000	445		
168	9500	7.20	538,000	825	525,000	810	498,000	775	466,000	735	397,000	670	323,000	590	244,000	485
177	10000	7.98	581,000	990	569,000	965	543,000	930	517,000	900	456,000	830	387,000	745	314,000	650

Single Inlet

400" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
22	1400	0.157	61,300	2.4												
25	1600	0.205	90,000	4.2												
29	1800	0.259	115,000	6.5	56,900	4.05										
32	2000	0.320	137,000	9.3	90,000	6.6										
35	2200	0.387	157,000	13.0	120,000	10.5	69,100	7.4								
38	2400	0.460	176,000	17.0	145,000	14.5	103,000	12.0								
41	2600	0.540	194,000	22.5	168,000	19.5	132,000	17.0	90,000	14.5						
45	2800	0.626	211,000	28	191,000	26	159,000	22.5	123,000	19.0						
48	3000	0.718	229,000	35	211,000	32	185,000	29	152,000	26	116,000	21.5				
51	3200	0.816	245,000	43	231,000	40	208,000	37	180,000	33	148,000	29	112,000	24.5		
54	3400	0.922	262,000	52	249,000	49	231,000	45	206,000	42	177,000	38	142,000	33	111,000	28
57	3600	1.03	279,000	62	268,000	58	251,000	56	229,000	52	204,000	48	173,000	43	146,000	38
61	3800	1.15	296,000	74	285,000	70	272,000	66	251,000	62	229,000	58	203,000	54	176,000	50
64	4000	1.28	312,000	86			291,000	80	274,000	74	254,000	70	232,000	66	207,000	62
67	4200	1.41	329,000	100			309,000	94	294,000	88	278,000	84	256,000	80	234,000	76
70	4400	1.54	345,000	115			326,000	105	314,000	105	300,000	98	280,000	94	259,000	90
73	4600	1.69	362,000	130			345,000	125	335,000	120	322,000	115	302,000	110	286,000	105
76	4800	1.84	376,000	150			361,000	140	352,000	135	340,000	135	324,000	130	308,000	120
80	5000	2.00	394,000	170					369,000	160	359,000	155	346,000	145	330,000	140
84	5250	2.20	413,000	195					393,000	185	382,000	180	372,000	175	357,000	170
87	5500	2.42	434,000	230					415,000	215	406,000	210	395,000	205	383,000	200
91	5750	2.54	452,000	250							425,000	230	417,000	225	405,000	220
95	6000	2.87	475,000	295							446,000	275	442,000	270	433,000	265
99	6250	3.12	494,000	335									465,000	310	451,000	300
103	6500	3.38	514,000	375									488,000	355	479,000	345
107	6750	3.63	535,000	425											501,000	390
111	7000	3.91	555,000	470											524,000	440
119	7500	4.50	595,000	580												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
57	3600	1.03	114,000	32												
61	3800	1.15	147,000	44												
64	4000	1.28	180,000	56	124,000	48										
67	4200	1.41	209,000	70	158,000	58										
70	4400	1.54	237,000	84	188,000	72	137,000	58								
73	4600	1.69	266,000	98	219,000	90	172,000	76								
76	4800	1.84	289,000	120	249,000	105	205,000	94	156,000	78						
80	5000	2.00	314,000	135	277,000	125	236,000	115	191,000	98						
84	5250	2.20	341,000	160	309,000	150	273,000	140	230,000	125	188,000	110				
87	5500	2.42	370,000	190	341,000	180	306,000	170	268,000	155	230,000	140	189,000	125		
91	5750	2.54	392,000	215	364,000	205	337,000	195	306,000	180	269,000	170	216,000	150		
95	6000	2.87	422,000	260	397,000	245	369,000	230	338,000	220	304,000	205	269,000	190	232,000	170
99	6250	3.12	448,000	300	425,000	285	398,000	270	371,000	255	343,000	240	307,000	230	273,000	210
103	6500	3.38	471,000	340	451,000	325	425,000	310	403,000	300	375,000	280	343,000	270	312,000	255
107	6750	3.63	494,000	385	476,000	370	454,000	350	431,000	340	405,000	330	376,000	310	349,000	295
111	7000	3.91	517,000	435	501,000	415	480,000	400	459,000	385	435,000	370	410,000	360	381,000	340
119	7500	4.50	561,000	540	549,000	525	531,000	510	512,000	490	494,000	480	471,000	465	448,000	445
127	8000	5.11			594,000	650	580,000	635	565,000	615	547,000	595	526,000	575	508,000	565
135	8500	5.76			637,000	785	626,000	770	610,000	750	598,000	735	582,000	715	564,000	695
143	9000	6.46			681,000	945	670,000	925	660,000	910	646,000	890	634,000	870	616,000	850
151	9500	7.20					716,000	1110	705,000	1090	693,000	1060	681,000	1050	670,000	1030
159	10000	7.98					761,000	1300	750,000	1270	739,000	1250	729,000	1240	717,000	1220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
99	6250	3.12	237,000	190												
103	6500	3.38	277,000	235	242,000	215										
107	6750	3.63	314,000	275	283,000	260										
111	7000	3.91	352,000	325	324,000	310	259,000	265								
119	7500	4.50	423,000	430	396,000	415	338,000	375	280,000	330						
127	8000	5.11	486,000	550	463,000	530	414,000	495	359,000	450	246,000	350				
135	8500	5.76	547,000	685	525,000	660	480,000	630	432,000	585	329,000	490				
143	9000	6.46	601,000	835	581,000	815	545,000	775	501,000	735	409,000	645	311,000	540		
151	9500	7.20	654,000	1000	638,000	985	605,000	945	566,000	895	482,000	815	393,000	715	296,000	505
159	10000	7.98	706,000	1200	691,000	1170	660,000	1130	628,000	1100	554,000	1010	470,000	905	381,000	785

Double Inlet

50" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
178	1400	0.147	1,060	0.042												
204	1600	0.191	1,530	0.073												
220	1800	0.242	1,960	0.115												
255	2000	0.299	2,360	0.170	1,540	0.120										
280	2200	0.362	2,730	0.235	2,020	0.185										
306	2400	0.430	3,090	0.315	2,460	0.260	1,760	0.205								
331	2600	0.505	3,450	0.41	2,880	0.350	2,250	0.290	1,500	0.225						
356	2800	0.585	3,770	0.52	3,270	0.455	2,710	0.395	2,100	0.325						
382	3000	0.673	4,120	0.66	3,640	0.58	3,150	0.52	2,590	0.45	1,990	0.385				
407	3200	0.765	4,450	0.81	4,010	0.72	3,550	0.66	3,050	0.59	2,530	0.51	1,890	0.43		
433	3400	0.864	4,790	0.98	4,380	0.89	3,960	0.82	3,500	0.74	3,000	0.66	2,490	0.59		
458	3600	0.969	5,110	1.20	4,730	1.10	4,320	1.00	3,900	0.92	3,460	0.84	3,000	0.76	2,490	0.67
481	3800	1.08	5,450	1.40	5,060	1.30	4,710	1.20	4,320	1.10	3,900	1.05	3,480	0.95	3,020	0.86
510	4000	1.20	5,740	1.65	5,430	1.55	5,080	1.45	4,710	1.35	4,320	1.25	3,940	1.15	3,520	1.10
535	4200	1.32	6,070	1.90			5,400	1.7	5,080	1.60	4,730	1.50	4,350	1.40	3,960	1.30
560	4400	1.45	6,400	2.20			5,780	2.0	5,450	1.90	5,110	1.80	4,790	1.70	4,410	1.60
585	4600	1.58	6,710	2.50			6,130	2.3	5,840	2.20	5,500	2.05	5,170	1.95	4,820	1.85
611	4800	1.72	7,030	2.90			6,450	2.6	6,180	2.50	5,870	2.40	5,570	2.30	5,240	2.20
636	5000	1.87	7,360	3.30			6,800	3	6,530	2.90	6,250	2.75	5,960	2.65	5,660	2.55
669	5250	2.06	7,750	3.80					6,950	3.40	6,700	3.25	6,420	3.20	6,150	3.05
700	5500	2.26	8,110	4.35					7,400	3.95	7,140	3.85	6,880	3.70	6,600	3.55
732	5750	2.47	8,500	5.0					7,850	4.55	7,600	4.1	7,320	4.30	7,100	4.15
765	6000	2.69	8,900	5.7							8,000	5.1	7,760	4.95	7,540	4.8
795	6250	2.92	9,290	6.5							8,410	5.8	8,200	5.7	8,000	5.5
823	6500	3.16	9,690	7.3									8,650	6.5	8,450	6.3
860	6750	3.40	10,100	8.2									9,060	7.3	8,850	7.1
891	7000	3.66	10,400	9.1									9,540	8.2	9,300	8
955	7500	4.20	11,200	11.5											10,200	10

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
481	3800	1.08	2,530	0.76												
510	4000	1.20	3,080	0.98												
535	4200	1.32	3,580	1.20	2,690	1.00										
560	4400	1.45	4,050	1.50	3,260	1.25										
585	4600	1.58	4,490	1.75	3,750	1.55	2,910	1.30								
611	4800	1.72	4,910	2.10	4,250	1.85	3,500	1.65	2,540	1.35						
636	5000	1.87	5,350	2.45	4,710	2.20	4,080	1.95	3,280	1.75						
669	5250	2.06	5,870	2.90	5,260	2.70	4,640	2.45	3,960	2.20	3,090	1.85				
700	5500	2.26	6,350	3.45	5,780	3.25	5,190	2.95	4,580	2.70	3,940	2.40	3,130	2.15		
732	5750	2.47	6,830	4.00	6,310	3.75	5,760	3.50	5,190	3.25	4,580	2.95	3,940	2.70		
765	6000	2.69	7,290	4.65	6,820	4.4	6,300	4.15	5,740	3.85	5,200	3.60	4,640	3.30	3,980	3.10
795	6250	2.92	7,750	5.4	7,290	5.1	6,800	4.8	6,290	4.55	5,780	4.25	5,220	3.95	4,700	3.65
823	6500	3.16	8,240	6.2	7,770	5.8	7,320	5.6	6,820	5.3	6,350	5.0	5,840	4.7	5,320	4.4
860	6750	3.40	8,670	7.0	8,240	6.7	7,800	6.3	7,340	6.1	6,860	5.8	6,360	5.4	5,920	5.2
891	7000	3.66	9,100	7.9	8,660	7.5	8,280	7.2	7,850	6.9	7,430	6.6	6,950	6.3	6,450	6.0
955	7500	4.20	9,980	9.9	9,600	9.6	9,210	9.2	8,830	8.9	8,450	8.5	8,020	8.2	7,610	7.9
1019	8000	4.79	10,800	12	10,500	12.0	10,200	11.5	9,750	11.0	9,430	11.0	9,010	10.5	8,650	10.0
1081	8500	5.40			11,300	14.5	11,000	14.0	10,700	13.5	10,400	13.5	10,000	13.0	9,650	12.5
1147	9000	6.05			12,200	17.5	11,900	17.0	11,600	16.5	11,300	16.0	10,900	15.5	10,600	15.5
1210	9500	6.75					12,800	20.5	12,500	20.0	12,200	19.5	11,900	19.0	11,600	18.5
1273	10000	7.47					13,000	23.5	13,300	23.5	13,100	23	12,800	22.5	12,500	22

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
795	6250	2.92	4,050	3.35												
823	6500	3.16	4,790	4.1	4,100	3.75										
860	6750	3.40	5,370	4.8	4,840	4.5										
891	7000	3.66	6,010	5.7	5,520	5.3	4,380	4.6								
955	7500	4.20	7,150	7.5	6,740	7.2	5,770	6.4	4,710	5.7						
1019	8000	4.79	8,280	9.7	7,850	9.4	7,030	8.6	6,180	7.8						
1081	8500	5.40	9,270	12.0	8,920	12.0	8,160	11.0	7,360	10.0	5,060	8.6				
1147	9000	6.05	10,300	15.0	9,950	14.5	9,260	14.0	8,500	13.0	7,000	11.0	5,170	9.4		
1210	9500	6.75	11,300	18.0	11,000	18	10,300	17.0	9,640	16.0	8,240	14.5	6,750	12.5	4,700	10.5
1273	10000	7.47	12,200	21.5	11,900	21	11,300	20.5	10,700	19.5	9,380	17.5	8,020	15.5	6,510	12

Single Inlet

400" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
22	1400	0.157	61,300	2.4												
25	1600	0.205	90,000	4.2												
29	1800	0.259	115,000	6.5	56,900	4.05										
32	2000	0.320	137,000	9.3	90,000	6 6										
35	2200	0.387	157,000	13.0	120,000	10 5	69,100	7.4								
38	2400	0.460	176,000	17.0	145,000	14 5	103,000	12 0								
41	2600	0.540	194,000	22.5	168,000	19.5	132,000	17.0	90,000	14 5						
45	2800	0.626	211,000	28	191,000	26	159,000	22 5	123,000	19.0						
48	3000	0.718	229,000	35	211,000	32	185,000	29	152,000	26	116,000	21.5				
51	3200	0.816	245,000	43	231,000	40	208,000	37	180,000	33	148,000	29	112,000	24.5		
54	3400	0.922	262,000	52	249,000	49	231,000	45	206,000	42	177,000	38	142,000	33	111,000	28
57	3600	1 03	279,000	62	268,000	58	251,000	56	229,000	52	204,000	48	173,000	43	146,000	38
61	3800	1.15	296,000	74	285,000	70	272,000	66	251,000	62	229,000	58	203,000	54	176,000	50
64	4000	1.28	312,000	86			291,000	80	274,000	74	254,000	70	232,000	66	207,000	62
67	4200	1.41	329,000	100			309,000	94	294,000	88	278,000	84	256,000	80	234,000	76
70	4400	1.54	345,000	115			326,000	105	314,000	105	300,000	98	280,000	94	259,000	90
73	4600	1.69	362,000	130			345,000	125	335,000	120	322,000	115	302,000	110	286,000	105
76	4800	1.84	376,000	150			361,000	140	352,000	135	340,000	135	324,000	130	308,000	120
80	5000	2 00	394,000	170					369,000	160	359,000	155	346,000	145	330,000	140
84	5250	2 20	413,000	195					393,000	185	382,000	180	372,000	175	357,000	170
87	5500	2.42	434,000	230					415,000	215	406,000	210	395,000	205	383,000	200
91	5750	2.54	452,000	250							425,000	230	417,000	225	405,000	220
95	6000	2.87	475,000	295							446,000	275	442,000	270	433,000	265
99	6250	3.12	494,000	335									465,000	310	451,000	300
103	6500	3.38	514,000	375									488,000	355	479,000	345
107	6750	3.63	535,000	425											501,000	390
111	7000	3.91	555,000	470											524,000	440
119	7500	4 50	595,000	580												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
57	3600	1.03	114,000	32												
61	3800	1.15	147,000	44												
64	4000	1.28	180,000	56	124,000	48										
67	4200	1.41	209,000	70	158,000	58										
70	4400	1.54	237,000	84	188,000	72	137,000	58								
73	4600	1.69	266,000	98	219,000	90	172,000	76								
76	4800	1.84	289,000	120	249,000	105	205,000	94	156,000	78						
80	5000	2 00	314,000	135	277,000	125	236,000	115	191,000	98						
84	5250	2 20	341,000	160	309,000	150	273,000	140	230,000	125	188,000	110				
87	5500	2.42	370,000	190	341,000	180	306,000	170	268,000	155	230,000	140	189,000	125		
91	5750	2.54	392,000	215	364,000	205	337,000	195	306,000	180	269,000	170	216,000	150		
95	6000	2.87	422,000	260	397,000	245	369,000	230	338,000	220	304,000	205	269,000	190	232,000	170
99	6250	3 12	448,000	300	425,000	285	398,000	270	371,000	255	343,000	240	307,000	230	273,000	210
103	6500	3 38	471,000	340	451,000	325	425,000	310	403,000	300	375,000	280	343,000	270	312,000	255
107	6750	3.63	494,000	385	476,000	370	454,000	350	431,000	340	405,000	330	376,000	310	349,000	295
111	7000	3.91	517,000	435	501,000	415	480,000	400	459,000	385	435,000	370	410,000	360	381,000	340
119	7500	4.50	561,000	540	549,000	525	531,000	510	512,000	490	494,000	480	471,000	465	448,000	445
127	8000	5.11			594,000	650	580,000	635	565,000	615	547,000	595	526,000	575	508,000	565
135	8500	5.76			637,000	785	626,000	770	610,000	750	598,000	735	582,000	715	564,000	695
143	9000	6.46			681,000	945	670,000	925	660,000	910	646,000	890	634,000	870	616,000	850
151	9500	7 20					716,000	1110	705,000	1090	693,000	1060	681,000	1050	670,000	1030
159	10000	7.98					761,000	1300	750,000	1270	739,000	1250	729,000	1240	717,000	1220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
99	6250	3.12	237,000	190												
103	6500	3 38	277,000	235	242,000	215										
107	6750	3.63	314,000	275	283,000	260										
111	7000	3.91	352,000	325	324,000	310	259,000	265								
119	7500	4 50	423,000	430	396,000	415	338,000	375	280,000	330						
127	8000	5.11	486,000	550	463,000	530	414,000	495	359,000	450	246,000	350				
135	8500	5.76	547,000	685	525,000	660	480,000	630	432,000	585	329,000	490				
143	9000	6.46	601,000	835	581,000	815	545,000	775	501,000	735	409,000	645	311,000	540		
151	9500	7.20	654,000	1000	638,000	985	605,000	945	566,000	895	482,000	815	393,000	715	298,000	505
159	10000	7.98	706,000	1200	691,000	1170	660,000	1130	628,000	1100	554,000	1010	470,000	905	381,000	785

Double Inlet **Single Width**

60" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
148	1400	0.147	1,620	0.064												
170	1600	0.191	2,340	0.100												
191	1800	0.242	3,000	0.175												
212	2000	0.299	3,610	0.26	2,360	0.185										
233	2200	0.362	4,190	0.36	3,100	0.285										
254	2400	0.430	4,740	0.48	3,780	0.40	2,690	0.315								
276	2600	0.505	5,290	0.63	4,410	0.54	3,460	0.445	2,300	0.345						
297	2800	0.585	5,790	0.80	5,000	0.70	4,160	0.61	3,220	0.50						
318	3000	0.673	6,310	1.00	5,590	0.89	4,820	0.80	3,970	0.69	3,040	0.59				
339	3200	0.765	6,820	1.25	6,150	1.10	5,440	1.00	4,680	0.90	3,880	0.78	2,900	0.66		
360	3400	0.864	7,330	1.50	6,710	1.35	6,000	1.25	5,360	1.15	4,600	1.00	3,820	0.89		
382	3600	0.969	7,840	1.80	7,250	1.65	6,620	1.55	5,980	1.40	5,310	1.30	4,600	1.15	3,820	1.00
403	3800	1.08	8,350	2.15	7,750	1.95	7,210	1.85	6,630	1.70	5,980	1.60	5,330	1.45	4,640	1.30
425	4000	1.20	8,800	2.50	8,320	2.35	7,780	2.20	7,210	2.05	6,630	1.95	6,030	1.80	5,400	1.65
445	4200	1.32	9,300	2.90			8,290	2.60	7,780	2.45	7,250	2.30	6,650	2.15	6,060	2.00
466	4400	1.45	9,810	3.40			8,850	3.05	8,350	2.90	7,840	2.70	7,330	2.60	6,760	2.45
488	4600	1.58	10,300	3.85			9,390	3.5	8,940	3.35	8,430	3.20	7,920	3.00	7,390	2.85
509	4800	1.72	10,800	4.5			9,900	4.0	9,470	3.85	9,000	3.65	8,550	3.50	8,040	3.35
530	5000	1.87	11,300	5.0			10,400	4.6	10,000	4.45	9,590	4.25	9,140	4.05	8,690	3.90
556	5250	2.06	11,900	5.8					10,700	5.2	10,300	5.0	9,840	4.85	9,410	4.65
584	5500	2.26	12,400	6.7					11,400	6	10,900	5.9	10,500	5.7	10,100	5.4
610	5750	2.47	13,000	7.7					12,000	7	11,600	6.8	11,200	6.6	10,900	6.4
636	6000	2.69	13,700	8.7							12,300	7.8	11,900	7.6	11,600	7.4
662	6250	2.92	14,200	9.9							12,900	8.9	12,600	8.7	12,300	8.5
690	6500	3.16	14,800	11.0									13,300	9.9	12,900	9.7
715	6750	3.40	15,500	12.5									13,900	11.0	13,600	11.0
742	7000	3.66	16,000	14.0									14,600	12.5	14,300	12.5
795	7500	4.20	17,200	17.5											15,600	15.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
403	3800	1.08	3,880	1.15												
425	4000	1.20	4,720	1.50												
445	4200	1.32	5,480	1.85	4,120	1.55										
466	4400	1.45	6,200	2.25	4,990	1.95										
488	4600	1.58	6,880	2.70	5,750	2.40	4,460	2.00								
509	4800	1.72	7,530	3.20	6,510	2.85	5,370	2.50	3,880	2.10						
530	5000	1.87	8,200	3.75	7,210	3.40	6,170	3.00	5,010	2.65						
556	5250	2.06	9,000	4.45	8,060	4.10	7,100	3.75	6,060	3.35	4,740	2.85				
584	5500	2.26	9,730	5.3	8,850	4.95	7,950	4.5	7,020	4.1	6,040	3.70	4,800	3.25		
610	5750	2.47	10,500	6.1	9,670	5.8	8,820	5.4	7,950	5.0	7,020	4.55	6,040	4.1		
636	6000	2.69	11,200	7.2	10,500	6.8	9,640	6.3	8,800	5.9	7,980	5.5	7,100	5.1	6,090	4.7
662	6250	2.92	11,900	8.2	11,200	7.8	10,400	7.4	9,650	7.0	8,850	6.5	8,000	6.1	7,200	5.6
690	6500	3.16	12,600	9.5	11,900	9.0	11,200	8.5	10,500	8.1	9,730	7.6	8,940	7.2	8,150	6.7
715	6750	3.40	13,300	10.5	12,600	10.0	12,000	9.7	11,300	9.3	10,500	8.8	9,750	8.3	9,080	7.9
742	7000	3.66	14,000	12.0	13,300	11.5	12,700	11.0	12,100	10.5	11,400	10.0	10,700	9.7	9,900	9.1
795	7500	4.20	15,300	15.0	14,700	14.5	14,100	14.0	13,500	13.5	12,900	13.0	12,300	12.5	11,700	12.0
848	8000	4.79	16,500	18.5	16,100	18	15,600	17.5	14,900	17	14,500	16.5	13,800	16.0	13,300	15.5
900	8500	5.40			17,300	22	16,900	21.5	16,400	21	15,900	20.5	15,300	19.5	14,800	19.0
954	9000	6.05			18,700	27	18,300	26	17,800	25	17,300	25	16,700	24	16,300	23.5
1010	9500	6.75					19,600	31	19,100	30	18,700	30	18,200	29	17,800	28
1060	10000	7.47					20,900	36	20,400	36	20,000	35	19,600	35	19,100	34

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
662	6250	2.92	6,200	5.1												
690	6500	3.16	7,330	6.3	6,290	5.8										
715	6750	3.40	8,240	7.3	7,410	6.9										
742	7000	3.66	9,220	8.7	8,460	8.2	6,710	7.1								
795	7500	4.20	11,000	11.5	10,300	11.0	8,850	9.9	7,210	8.7						
848	8000	4.79	12,700	15.0	12,000	14.5	10,800	13	9,470	12						
900	8500	5.40	14,200	18.5	13,700	18.0	12,500	17	11,300	15.5	8,690	13				
954	9000	6.05	15,800	23	15,300	22.5	14,200	21	13,000	19.5	10,700	16	7,920	14		
1010	9500	6.75	17,200	28	16,800	27	15,800	26	14,800	24.5	12,600	22	10,400	19	7,190	16.0
1060	10000	7.47	18,700	33	18,300	33	17,300	31	16,400	30	14,400	27	12,300	24	9,080	18.5

Double Inlet

70" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
127	1400	0.147	2,080	0.082												
145	1600	0.191	3,000	0.145												
164	1800	0.242	3,850	0.225												
182	2000	0.299	4,640	0.33	3,030	0.240										
200	2200	0.362	5,360	0.46	3,980	0.365										
218	2400	0.430	6,000	0.62	4,850	0.51	3,450	0.40								
236	2600	0.505	6,790	0.81	5,660	0.69	4,440	0.57	2,950	0.445						
254	2800	0.585	7,420	1.00	6,430	0.90	5,340	0.78	4,140	0.64						
272	3000	0.673	8,100	1.30	7,160	1.15	6,190	1.00	5,140	0.88	3,910	0.76				
291	3200	0.765	8,760	1.60	7,890	1.40	6,990	1.30	6,010	1.15	4,980	1.00	3,720	0.84		
309	3400	0.864	9,410	1.90	8,610	1.75	7,790	1.60	6,880	1.45	5,910	1.30	4,900	1.15		
327	3600	0.969	10,100	2.30	9,300	2.10	8,500	1.95	7,670	1.80	6,810	1.65	5,900	1.50	4,900	1.30
346	3800	1.08	10,700	2.75	9,950	2.55	9,260	2.35	8,500	2.20	7,670	2.05	6,840	1.85	5,950	1.70
364	4000	1.20	11,300	3.20	10,700	3	10,000	2.85	9,260	2.65	8,500	2.50	7,750	2.30	6,940	2.15
382	4200	1.32	11,900	3.75			10,600	3.35	10,000	3.15	9,300	2.95	8,550	2.75	7,790	2.6
400	4400	1.45	12,600	4.35			11,400	3.9	10,700	3.70	10,100	3.5	9,410	3.30	8,600	3.1
418	4600	1.58	13,200	4.95			12,100	4.5	11,500	4.30	10,800	4.1	10,200	3.90	9,190	3.7
436	4800	1.72	13,800	5.8			12,700	5.2	12,200	4.95	11,600	4.7	11,000	4.55	10,300	4.3
455	5000	1.87	14,500	6.5			13,400	5.9	12,900	5.7	12,300	5.5	11,700	5.2	11,200	5.0
477	5250	2.06	15,300	7.5					13,700	6.7	13,200	6.4	12,600	6.3	12,100	6.0
500	5500	2.26	16,000	8.6					14,600	7.7	14,000	7.5	13,500	7.3	13,000	7.0
523	5750	2.47	16,700	9.8					15,100	9	14,900	8.7	14,400	8.4	14,000	8.2
545	6000	2.69	17,500	11.0							15,800	10.0	15,300	9.8	14,800	9.5
569	6250	2.92	18,300	12.5							16,600	11.5	16,200	11.0	15,700	11.0
590	6500	3.16	19,100	14.5									17,000	12.5	16,600	12.5
614	6750	3.40	19,800	16									17,800	14.5	17,400	14.0
636	7000	3.66	20,600	18									18,700	16	18,300	16.0
682	7500	4.20	22,100	22											20,000	19.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
346	3800	1.08	4,980	1.50												
364	4000	1.20	6,060	1.95												
382	4200	1.32	7,040	2.4	5,300	2.00										
400	4400	1.45	7,960	2.9	6,410	2.50										
418	4600	1.58	8,830	3.5	7,390	3.05	5,730	2.6								
436	4800	1.72	9,660	4.1	8,360	3.70	6,900	3.2	4,980	2.7						
455	5000	1.87	10,500	4.8	9,270	4.35	7,930	3.9	6,440	3.4						
477	5250	2.06	11,600	5.7	10,400	5.3	9,120	4.8	7,780	4.3	6,060	3.60				
500	5500	2.26	12,500	6.8	11,400	6.4	10,200	5.8	9,010	5.3	7,750	4.75	6,150	4.2		
523	5750	2.47	13,400	7.9	12,400	7.4	11,300	6.9	10,200	6.4	9,010	5.8	7,750	5.3		
545	6000	2.69	14,300	9.2	13,400	8.7	12,400	8.1	11,300	7.6	10,200	7.1	9,100	6.5	7,810	6.0
569	6250	2.92	15,300	10.5	14,300	10.0	13,400	9.5	12,400	8.9	11,400	8.3	10,300	7.8	9,230	7.1
590	6500	3.16	16,200	12.0	15,300	11.5	14,400	11.0	13,400	10	12,500	9.8	11,500	9.2	10,400	8.6
614	6750	3.40	17,100	14.0	16,200	13.0	15,300	12.5	14,400	12	13,500	11	12,500	11	11,600	10.0
636	7000	3.66	17,900	16.0	17,100	15.0	16,300	14.0	15,400	14	14,600	13	13,600	12	12,700	11.5
682	7500	4.20	19,600	19.5	18,900	19.0	18,200	18.0	17,300	17	16,600	17	15,800	16	15,000	15.5
726	8000	4.79	21,200	24	20,600	23.5	20,000	22.5	19,200	22	18,500	21	17,700	20	17,000	20
773	8500	5.40			22,300	28	21,700	28	21,000	27	20,300	26	19,600	25	19,000	25
819	9000	6.05			24,100	34	23,400	33	23,800	33	22,100	32	21,200	31	20,900	30
864	9500	6.75					25,100	40	24,400	39	24,000	39	23,400	38	22,800	37
910	10000	7.47					26,800	47	26,200	46	25,700	45	25,100	44	24,500	44

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
569	6250	2.92	7,950	6.6												
590	6500	3.16	9,400	8.0	8,060	7.4										
614	6750	3.40	10,500	9.4	9,510	8.8										
636	7000	3.66	11,800	11	10,800	10.5	8,610	9.5								
682	7500	4.20	14,000	15	13,200	14	11,400	13	9,260	11						
726	8000	4.79	16,300	19	15,400	18	13,800	17	12,100	15						
773	8500	5.40	18,200	24	17,500	23	16,000	22	14,500	20	11,100	17				
819	9000	6.05	20,200	29	19,500	28	18,200	27	16,700	25	13,800	22	10,200	18.5		
864	9500	6.75	22,000	36	21,600	35	20,200	32	18,900	32	16,200	28	13,300	24	9,230	20
910	10000	7.47	24,000	43	23,400	42	22,100	40	21,000	38	18,500	35	15,800	31	12,800	23

Double Inlet

80" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
111	1400	0.147	2,810	0.110												
127	1600	0.191	4,060	0.195												
143	1800	0.212	5,210	0.305												
159	2000	0.299	6,270	0.45	4,100	0.325										
175	2200	0.362	7,260	0.62	5,390	0.495										
191	2400	0.430	8,240	0.84	6,550	0.69	4,670	0.54								
206	2600	0.505	9,180	1.10	7,660	0.94	6,000	0.78	3,990	0.60						
222	2800	0.585	10,100	1.40	8,700	1.20	7,230	1.05	5,600	0.87						
238	3000	0.673	11,000	1.75	9,700	1.55	8,380	1.40	6,910	1.20	5,300	1.00				
255	3200	0.765	11,900	2.15	10,700	1.90	9,460	1.75	8,140	1.55	6,750	1.35	5,010	1.15		
271	3400	0.864	12,700	2.60	11,700	2.40	10,500	2.20	9,310	2.00	8,000	1.75	6,640	1.55		
286	3600	0.969	13,600	3.15	12,600	2.85	11,500	2.65	10,400	2.45	9,230	2.25	7,990	2.05	6,640	1.75
302	3800	1.08	14,500	3.70	13,500	3.45	12,600	3.20	11,500	3.00	10,400	2.75	9,260	2.50	8,050	2.30
318	4000	1.20	15,300	4.35	14,500	4.1	13,500	3.85	12,500	3.60	11,500	3.35	10,500	3.10	9,390	2.90
334	4200	1.32	16,200	5.1			14,400	4.5	13,500	4.25	12,600	4.00	11,600	3.75	10,500	3.50
350	4400	1.45	17,100	5.9			15,400	5.3	14,500	5.0	13,600	4.75	12,700	4.5	11,800	4.20
366	4600	1.58	17,900	6.7			16,300	6.1	15,500	5.8	14,700	5.5	13,800	5.2	12,800	4.95
382	4800	1.72	18,700	7.8			17,200	7	16,500	6.7	15,600	6.4	14,900	6.1	14,000	5.8
398	5000	1.87	19,600	8.7			18,100	8	17,400	7.7	16,700	7.4	15,900	7.1	15,100	6.8
417	5250	2.06	20,600	10.0					18,500	9.0	17,800	8.7	17,100	8.5	16,400	8.1
437	5500	2.26	21,600	11.5					19,700	10.5	19,000	10.0	18,300	9.9	17,600	9.5
457	5750	2.47	22,700	13.5					20,900	12	20,200	12.0	19,500	11.5	18,900	11.0
477	6000	2.69	23,700	15.0							21,300	13.5	20,700	13.0	20,100	13.0
497	6250	2.92	24,800	17.0							22,400	15.5	21,900	15.0	21,300	15.0
516	6500	3.16	25,800	19.5									23,000	17.0	22,500	17.0
536	6750	3.40	26,800	22.0									24,200	19.5	23,600	19.0
556	7000	3.66	27,800	24.5									25,400	22	24,800	21.5
596	7500	4.20	29,900	30											27,100	27

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
302	3800	1.08	6,750	2.05												
318	4000	1.20	8,200	2.60												
334	4200	1.32	9,510	3.25	7,170	2.70										
350	4400	1.45	10,800	3.95	8,680	3.40										
366	4600	1.58	12,000	4.7	10,000	4.15	7,750	3.50								
382	4800	1.72	13,100	5.5	11,300	4.95	9,340	4.35	6,750	3.6						
398	5000	1.87	14,300	6.5	12,600	5.9	10,700	5.3	8,720	4.6						
417	5250	2.06	15,600	7.8	14,000	7.1	12,400	6.5	10,500	5.8	8,230	5.0				
437	5500	2.26	16,900	9.1	15,400	8.6	13,800	7.8	12,200	7.1	10,500	6.1	8,320	5.6		
457	5750	2.47	18,200	10.5	16,800	10.0	15,300	9.4	13,800	8.7	12,200	7.9	10,500	7.1		
477	6000	2.69	19,400	12.5	18,200	12.0	16,800	11.0	15,300	10	13,800	9.6	12,300	8.8	10,600	8.2
497	6250	2.92	20,600	14.5	19,400	13.5	18,100	13.0	16,700	12	15,400	11	13,900	10.5	12,500	9.7
516	6500	3.16	22,000	16.5	20,700	15.5	19,500	15.0	18,200	14	16,900	13	15,500	12.5	14,100	11.5
536	6750	3.40	23,100	18.5	21,900	17.5	20,800	17.0	19,500	16	18,300	15	16,900	14.5	15,700	13.5
556	7000	3.66	24,300	21	23,100	20	22,100	19.5	20,900	18	19,700	18	18,500	17	17,200	16
596	7500	4.20	26,600	26	25,600	26	24,600	24.5	23,500	24	22,400	23	21,200	22	20,100	21
636	8000	4.79	28,700	32	28,000	32	27,100	31	25,900	29	25,000	29	24,000	27	23,000	27
676	8500	5.40			30,200	38	29,400	38	28,400	36	27,600	35	26,600	34	25,700	33
716	9000	6.05			32,600	46	31,700	45	30,800	44	30,000	43	29,000	42	28,100	41
756	9500	6.75					34,000	54	33,000	53	32,400	52	31,600	52	30,800	49
796	10000	7.47					36,300	64	35,400	62	34,800	61	34,000	60	33,300	60

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
497	6250	2.92	10,800	8.9												
516	6500	3.16	12,700	10.5	10,900	10										
536	6750	3.40	14,300	12.5	12,900	12										
556	7000	3.66	16,000	15	14,700	14	11,700	12								
596	7500	4.20	19,000	20	17,900	19	15,400	17	12,500	15						
636	8000	4.79	22,000	26	20,800	25	18,700	23	16,500	21						
676	8500	5.40	24,700	32	23,700	31	21,700	29	19,500	27	15,100	23				
716	9000	6.05	27,400	40	26,500	39	24,600	37	22,600	34	18,600	30	13,800	25		
756	9500	6.75	29,900	48	29,200	47	27,500	45	25,600	43	21,900	38	17,900	33	12,500	28
796	10000	7.47	32,400	58	31,600	56	30,000	54	28,500	52	24,900	47	21,400	42	17,300	32

Double Inlet

90" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
99	1400	0.147	3,490	0.14												
113	1600	0.191	5,050	0.24												
128	1800	0.242	6,470	0.38												
142	2000	0.299	7,800	0.56	5,100	0.405										
156	2200	0.362	9,030	0.78	6,700	0.61										
170	2400	0.430	10,200	1.05	8,150	0.86	5,800	0.67								
184	2600	0.505	11,400	1.35	9,540	1.15	7,460	0.97	4,950	0.75						
198	2800	0.585	12,500	1.70	10,800	1.50	8,980	1.30	6,950	1.10						
212	3000	0.673	13,600	2.15	12,100	1.95	10,400	1.70	8,580	1.50	6,580	1.25				
226	3200	0.765	14,700	2.65	13,300	2.40	11,800	2.15	10,100	1.95	8,380	1.70	6,250	1.40		
240	3400	0.864	15,800	3.25	14,500	2.95	13,100	2.7	11,600	2.45	9,950	2.20	8,250	1.95		
255	3600	0.969	16,900	3.9	15,700	3.55	14,300	3.3	12,900	3.05	11,500	2.75	9,920	2.50	8,250	2.20
269	3800	1.08	18,000	4.6	16,700	4.25	15,600	4.0	14,300	3.7	12,900	3.45	11,500	3.15	10,000	2.85
284	4000	1.20	19,000	5.4	18,000	5.1	16,800	4.8	15,600	4.5	14,300	4.15	13,000	3.90	11,700	3.60
297	4200	1.32	20,100	6.3			17,900	5.6	16,800	5.3	15,700	5.0	14,400	4.65	13,100	4.35
311	4400	1.45	21,200	7.3			19,100	6.6	18,000	6.2	16,900	5.9	15,800	5.6	14,600	5.2
325	4600	1.58	22,200	8.3			20,300	7.6	19,300	7.2	18,200	6.9	17,100	6.5	16,000	6.2
339	4800	1.72	23,300	9.7			21,400	8.7	20,500	8.3	19,400	7.9	18,500	7.6	17,400	7.2
354	5000	1.87	21,100	11.0			22,500	10	21,600	9.6	20,700	9.2	19,700	8.8	18,800	8.4
372	5250	2.06	25,600	12.5					23,000	11	22,200	11.0	21,200	10.5	20,500	10.0
390	5500	2.26	26,900	14.5					24,500	13	23,600	12.5	22,800	12.0	21,900	12.0
407	5750	2.47	28,200	16.5					26,000	15	25,200	14.5	24,200	14.0	23,500	14.0
425	6000	2.69	29,400	19.0							26,500	16.5	25,700	16.5	25,000	16.0
442	6250	2.92	30,800	21.5							27,900	19	27,200	19.0	26,500	18.5
460	6500	3.16	32,000	24									28,600	21.5	27,900	21.0
477	6750	3.40	33,400	27									30,000	24	29,300	23.5
495	7000	3.66	34,600	30									31,500	27	30,800	27
532	7500	4.20	37,100	37											33,700	33

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
269	3800	1.08	8,380	2.50												
284	4000	1.20	10,200	3.25												
297	4200	1.32	11,800	4.05	8,900	3.35										
311	4400	1.45	13,400	4.9	10,800	4.2										
325	4600	1.58	14,900	5.8	12,400	5.1	9,640	4.35								
339	4800	1.72	16,300	6.9	14,100	6.2	11,600	5.4	8,370	4.5						
354	5000	1.87	17,700	8.1	15,600	7.3	13,300	6.5	10,700	5.7						
372	5250	2.06	19,400	9.6	17,400	8.0	15,300	8.1	13,100	7.2	10,200	6.2				
390	5500	2.26	21,000	11.5	19,100	10.5	17,200	9.7	15,200	8.8	13,000	8.0	10,400	7.1		
407	5750	2.47	22,600	13.5	20,900	12.5	19,100	11.5	17,100	11.0	15,100	9.8	13,000	8.9		
425	6000	2.69	21,100	15.5	22,600	14.5	20,800	13.5	19,000	13.0	17,200	12.0	15,300	11.0	13,200	10.0
442	6250	2.92	25,700	18.0	24,100	17.0	22,500	16.0	20,800	15.0	19,000	14.0	17,300	13.0	15,500	12.0
460	6500	3.16	27,300	20.5	25,700	19.5	24,200	18.5	22,600	17.5	21,000	16.5	19,300	15.5	17,600	14.5
477	6750	3.40	28,700	23	27,300	22	25,800	21	24,200	20	22,600	19	21,100	18	19,600	17.0
495	7000	3.66	30,200	26	28,700	25	27,400	24	25,900	23	24,500	22	23,000	21	21,400	19.5
532	7500	4.20	33,000	33	31,800	32	30,500	30	29,200	29	27,900	28	26,600	27	25,000	26
566	8000	4.79	35,600	10	34,700	39	33,600	38	32,200	37	31,100	36	29,800	34	28,000	33
601	8500	5.40			37,500	47	36,500	47	35,300	45	34,200	44	33,100	43	32,000	41
636	9000	6.05			40,500	58	39,400	56	38,300	54	37,200	54	36,200	52	35,200	50
672	9500	6.75					42,200	68	41,100	66	40,300	66	39,400	64	38,400	62
708	10000	7.47					45,000	78	44,000	76	43,200	76	42,300	74	41,300	74

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
442	6250	2.92	13,400	11												
460	6500	3.16	15,800	13	13,600	12.5										
477	6750	3.40	17,800	16	16,000	15.0										
495	7000	3.66	19,900	19	18,400	17.5	14,500	15								
532	7500	4.20	23,700	25	22,300	24	19,100	22	15,600	19						
566	8000	4.79	27,400	32	26,000	31	23,200	28	20,000	26						
601	8500	5.40	30,700	40	29,600	39	27,000	36	24,400	34	18,800	28				
636	9000	6.05	34,100	50	33,000	48	30,700	46	28,100	43	23,200	37	17,100	31		
672	9500	6.75	37,200	60	36,300	58	34,100	56	31,900	54	27,300	47	22,400	41	15,500	34
708	10000	7.47	40,400	72	39,400	70	37,400	64	35,400	64	31,000	58	26,600	52	21,600	40

Double Inlet **Single Width**

100" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuoucly Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
89	1400	0 147	4,240	0 165												
102	1600	0 191	6,130	0 295												
114	1800	0 242	7,850	0 46												
127	2000	0 299	9,460	0 68	6,190	0 49										
140	2200	0 362	11,000	0 94	8,130	0.70										
153	2400	0 430	12,400	1 25	9,900	1 05	7,050	0.82								
165	2600	0 505	13,800	1 65	11,600	1.40	9,050	1.15	6,010	0 91						
178	2800	0 585	15,200	2 10	13,100	1 85	10,900	1.60	8,450	1.30						
191	3000	0 673	16,600	2 65	14,600	2 35	12,600	2 10	10,400	1 80	7,980	1.55				
204	3200	0 765	17,900	3 25	16,100	2.9	14,300	2.65	12,300	2.35	10,200	2.05	7,590	1.70		
217	3400	0 864	19,200	3 9	17,600	3 6	15,900	3.30	14,000	3 0	12,100	2 65	10,000	2.35		
229	3600	0 969	20,600	4.7	19,000	4 3	17,300	4.00	15,700	3.7	13,900	3 35	12,000	3 05	10,000	2 70
242	3800	1 08	21,900	5 5	20,300	5 2	18,900	4.85	17,400	4 5	15,700	4 15	14,000	3.8	12,100	3.45
254	4000	1 20	23,100	6 5	21,800	6.2	20,400	5.8	18,900	5.4	17,400	5 1	15,800	4 7	14,200	4.35
268	4200	1 32	24,400	7 5			21,700	6.8	20,400	6 4	19,000	6 1	17,400	5.7	15,900	5.3
280	4400	1 45	25,700	8 8			23,200	8.0	21,900	7 5	20,500	7 1	19,200	6 8	17,700	6.4
293	4600	1 58	27,000	10 0			21,600	9 2	23,400	8 8	22,100	8 3	20,800	7.9	19,400	7.5
306	4800	1.72	28,200	12.0			25,900	10.5	24,800	10 0	23,600	9 6	22,400	9.2	21,100	8 8
318	5000	1 87	29,600	13.0			27,400	12	26,200	11.5	25,100	11.0	23,900	10.5	22,800	10.0
334	5250	2 06	31,100	15 5					27,900	13 5	26,900	13.0	25,800	13	24,700	12.0
350	5500	2 26	32,600	17 5					29,700	16.0	28,700	15.5	27,600	15	26,500	14 5
366	5750	2 47	34,200	20					31,500	18.5	30,500	17.5	29,400	17	28,500	16.5
382	6000	2 69	35,800	23							32,200	20.5	31,200	20	30,300	19.5
398	6250	2 92	37,300	26							33,800	23 5	33,000	23	32,100	22
414	6500	3 16	38,900	29									34,700	26	33,900	25
430	6750	3 40	40,500	33									36,400	29	35,600	28
446	7000	3.66	42,000	37									38,200	33	37,400	32
477	7500	4 20	45,100	45											40,900	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
242	3800	1 08	10,200	3.05												
254	4000	1.20	12,400	3.95												
268	4200	1.32	14,400	4.9	10,800	4 05										
280	4400	1.45	16,300	6.0	13,100	5.1										
293	4600	1.58	18,000	7.1	15,100	6.2	11,700	5.3								
306	4800	1.72	19,700	8.4	17,100	7.5	14,100	6.5	10,200	5.5						
318	5000	1 87	21,500	9.8	18,900	8.9	16,200	7.9	13,200	7.0						
334	5250	2 06	23,600	11.5	21,100	11.0	18,600	9.8	15,900	8.7	12,400	7 5				
350	5500	2.26	25,500	14.0	23,200	13.0	20,800	12.0	18,400	10.5	15,800	9 7	12,500	8 6		
366	5750	2 47	27,400	16.0	25,400	15.0	23,100	14.0	20,800	13 0	18,400	12.0	15,800	11.0		
382	6000	2.69	29,300	19 0	27,400	17.5	25,300	16.5	23,000	15.5	21,000	14.5	18,600	13 5	16,000	12 5
398	6250	2 92	31,100	21.5	29,300	20.5	27,300	19.5	25,300	18	23,200	17	21,000	16	18,800	14.5
414	6500	3.16	33,100	25	31,200	23.5	29,400	22.5	27,400	21	25,500	20	23,400	19	21,400	17.5
430	6750	3.40	34,800	28	33,100	27	31,300	26	29,500	24	27,600	23	25,600	22	23,800	21
446	7000	3.66	36,600	32	34,800	30	33,300	29	31,600	28	29,800	27	27,900	25	25,900	24
477	7500	4 20	40,100	40	38,600	39	37,000	37	35,500	36	33,900	34	32,200	33	30,600	32
510	8000	4.79	43,200	49	42,100	48	40,800	46	39,200	45	37,800	43	36,200	42	34,800	40
541	8500	5.40			45,500	58	44,400	56	43,000	54	41,600	54	40,100	52	38,800	50
574	9000	6.05			49,100	70	47,900	68	46,500	66	45,200	66	43,900	64	42,700	62
605	9500	6.75					51,200	82	50,000	80	49,000	78	47,800	78	46,600	74
637	10000	7.47					54,600	90	53,500	94	52,500	94	51,200	90	50,100	90

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
398	6250	2 92	16,500	13 5												
414	6500	3.16	19,400	16.5	16,500	15										
430	6750	3 40	21,600	19	19,500	18										
446	7000	3 66	24,200	23	22,200	22	17,000	18.5								
477	7500	4 20	28,800	30	27,000	29	23,200	26	18,900	23						
510	8000	4 79	33,200	39	31,500	38	28,200	35	24,800	31						
541	8500	5 40	37,300	49	35,900	47	32,800	44	29,600	41	22,800	34				
574	9000	6 05	41,400	60	40,000	58	37,200	56	34,100	52	28,200	45	20,800	38		
605	9500	6 75	45,100	72	44,000	72	41,400	68	38,800	64	33,100	58	27,200	50	18,800	42
637	10000	7.47	49,000	88	47,800	86	45,400	82	43,000	78	37,700	70	32,300	64	26,200	48

Double Inlet

110" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
81	1400	0.147	5,350	0.21												
93	1600	0.191	7,740	0.37												
104	1800	0.242	9,910	0.58												
116	2000	0.299	11,900	0.85	7,810	0.62										
128	2200	0.362	13,800	1.20	10,300	0.94										
139	2400	0.430	15,700	1.60	12,500	1.30	8,990	1.05								
150	2600	0.505	17,500	2.10	14,600	1.80	11,400	1.50	7,590	1.15						
162	2800	0.585	19,100	2.65	16,600	2.30	13,800	2.00	10,700	1.65						
174	3000	0.673	20,900	3.30	18,500	2.95	16,000	2.65	13,200	2.30	10,100	1.95				
185	3200	0.765	22,600	4.10	20,300	3.65	18,000	3.30	15,500	2.95	12,800	2.60	9,560	2.15		
197	3400	0.864	24,200	4.95	22,200	4.5	20,100	4.15	17,700	3.75	15,200	3.35	12,600	2.95		
208	3600	0.969	25,900	6.0	24,000	5.5	21,900	5.1	19,800	4.65	17,600	4.25	15,200	3.85	12,600	3.40
220	3800	1.08	27,600	7.0	25,700	6.5	23,900	6.1	21,900	5.7	19,800	5.3	17,600	4.8	15,300	4.35
232	4000	1.20	29,100	8.3	27,500	7.8	25,700	7.3	23,900	6.9	21,900	6.4	20,000	5.9	17,900	5.5
243	4200	1.32	30,800	9.7			27,400	8.6	25,800	8.1	24,000	7.6	22,000	7.1	20,100	6.6
254	4400	1.45	32,500	11.0			29,300	10.0	27,600	9.5	25,900	9.0	24,200	8.5	22,400	8.0
266	4600	1.58	34,000	13.0			31,100	11.5	29,600	11.0	27,900	10.5	26,200	10.0	24,400	9.5
278	4800	1.72	35,600	15.0			32,700	13.5	31,400	12.5	29,800	12.0	28,300	11.5	26,600	11.0
290	5000	1.87	37,300	16.5			34,500	15.5	33,100	14.5	31,700	14.0	30,200	13.5	28,700	13.0
304	5250	2.06	39,300	19.5					35,200	17	34,000	16.5	32,700	16.0	31,100	15.5
318	5500	2.26	41,100	22					37,500	20	36,200	19.5	34,700	18.5	33,500	18.0
332	5750	2.47	43,100	25					39,800	23	38,500	22.5	37,100	21.5	36,000	21.0
348	6000	2.69	45,100	29							40,500	26	39,400	25	38,200	24.5
361	6250	2.92	47,100	33							42,700	29	41,600	29	40,500	28
376	6500	3.16	49,100	37									43,900	33	42,800	32
390	6750	3.40	51,100	41									46,000	37	44,900	36
405	7000	3.66	53,000	46									48,200	42	47,200	41
435	7500	4.20	57,000	58											51,500	50

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
220	3800	1.08	12,800	3.85												
232	4000	1.20	15,600	5.0												
243	4200	1.32	18,100	6.2	13,600	5.1										
254	4400	1.45	20,500	7.5	16,500	6.5										
266	4600	1.58	22,800	9.0	19,000	7.9	14,800	6.7								
278	4800	1.72	24,900	10.5	21,600	9.5	17,800	8.3	12,800	6.9						
290	5000	1.87	27,100	12.5	23,900	11.0	20,400	10.0	16,600	8.8						
304	5250	2.06	29,800	15.0	26,700	13.5	23,500	12.5	20,000	11.0	15,700	9.5				
318	5500	2.26	32,200	17.5	29,300	16.5	26,300	15.0	23,200	13.5	19,000	12.0	15,800	11.0		
332	5750	2.47	34,600	20.5	32,000	19.0	29,200	18.0	26,300	16.5	23,200	15.0	19,900	13.5		
348	6000	2.69	36,900	23.5	34,600	22.5	31,900	21.0	29,100	19.5	26,400	18.0	23,500	16.5	20,100	15.5
361	6250	2.92	39,300	27	36,900	26	34,500	24.5	31,900	23	29,200	21.5	26,500	20	23,800	18.5
376	6500	3.16	41,800	31	39,400	30	37,100	28	34,600	27	32,200	25	29,500	24	27,000	22
390	6750	3.40	44,000	36	41,800	34	30,500	32	37,200	31	34,800	29	32,200	28	30,000	26
405	7000	3.66	46,100	40	44,000	38	42,000	37	39,800	35	37,700	34	35,200	32	32,700	30
435	7500	4.20	50,600	50	48,700	49	46,800	47	44,700	45	42,800	43	40,700	42	38,600	40
464	8000	4.79	54,500	62	53,100	60	51,500	58	49,400	56	47,700	54	45,700	52	43,800	50
491	8500	5.40			57,400	72	56,000	72	54,100	70	52,500	68	50,700	66	49,000	64
520	9000	6.05			62,000	88	60,400	86	58,700	84	57,100	82	55,400	80	53,900	78
550	9500	6.75					64,600	105	63,100	100	61,800	98	60,300	96	58,800	94
578	10000	7.47					69,000	120	67,400	120	66,100	115	64,600	115	63,200	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
361	6250	2.92	20,500	17												
376	6500	3.16	24,200	21	20,800	19										
390	6750	3.40	27,200	24	24,500	23										
405	7000	3.66	30,500	29	27,900	27	22,200	23								
435	7500	4.20	36,300	38	34,100	37	29,200	33	23,900	29						
464	8000	4.79	42,000	49	39,000	48	35,600	43	31,300	40						
491	8500	5.40	47,000	62	45,200	60	41,400	56	37,300	52	28,700	43				
520	9000	6.05	52,100	76	50,500	74	46,900	70	43,000	66	35,600	56	26,200	48		
550	9500	6.75	57,000	92	55,000	90	52,200	86	48,800	82	41,700	72	31,200	64	23,800	52
578	10000	7.47	61,800	110	60,300	105	57,200	105	54,200	98	47,500	90	40,600	80	33,000	60

Double Inlet

120" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
71	1400	0.147	7,270	0.285												
85	1600	0.191	10,500	0.50												
95	1800	0.242	13,500	0.79												
100	2000	0.299	16,200	1.15	10,600	0.81										
117	2200	0.362	18,800	1.60	13,900	1.30										
127	2400	0.430	21,300	2.15	17,000	1.80	12,100	1.4								
138	2600	0.505	23,800	2.85	19,800	2.40	15,500	2.0	10,300	1.55						
149	2800	0.585	26,000	3.6	22,500	3.15	18,700	2.7	14,500	2.15						
159	3000	0.673	28,400	4.5	25,100	4.00	21,700	3.6	17,900	3.10	13,700	2.65				
170	3200	0.765	30,700	5.6	27,600	4.95	24,500	4.5	21,000	4.05	17,500	3.50	13,000	2.95		
180	3400	0.861	33,000	6.7	30,200	6.1	27,300	5.6	24,100	5.1	20,700	4.55	17,200	4.0		
191	3600	0.969	35,200	8.1	32,600	7.4	29,800	6.9	26,900	6.3	23,900	5.8	20,700	5.2	17,200	4.6
202	3800	1.08	37,500	9.6	34,800	8.9	32,400	8.3	29,800	7.7	26,900	7.1	24,000	6.5	20,800	5.9
212	4000	1.20	39,500	11.0	37,400	10.5	35,000	10.0	32,400	9.3	29,800	8.7	27,100	8.1	24,300	7.4
223	4200	1.32	41,900	13.0			37,300	11.5	35,000	11.0	32,600	10.5	29,900	9.7	27,300	9.0
233	4400	1.45	44,100	15.0			39,800	13.5	37,500	13.0	35,200	12.5	32,900	11.5	30,400	11.0
244	4600	1.58	46,300	17.5			42,200	16.0	40,200	15.0	37,900	14.5	35,600	13.5	33,200	13.0
255	4800	1.72	48,400	20.0			44,500	18.0	42,600	17.5	40,500	16.5	38,400	16.0	36,100	15.0
266	5000	1.87	50,700	22.5			46,900	20.5	45,000	20.0	43,100	19.0	41,100	18.5	39,000	17.5
278	5250	2.06	53,100	25					47,900	23.5	46,000	22.5	44,200	22	42,400	21.0
292	5500	2.26	56,000	30					51,000	27	49,100	26	47,100	25	45,500	24.5
305	5750	2.47	58,600	34					54,000	31	52,400	30	50,500	30	49,000	29
318	6000	2.69	61,400	39							55,100	35	53,500	34	52,000	33
332	6250	2.92	64,000	44							58,000	40	56,500	39	55,100	38
345	6500	3.16	66,700	50									59,600	45	58,100	41
358	6750	3.40	69,500	56									62,500	50	61,000	49
372	7000	3.66	72,000	62									65,500	56	64,100	56
398	7500	4.20	77,300	78											70,000	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
202	3800	1.08	17,400	5.3												
212	4000	1.20	21,200	6.8												
223	4200	1.32	24,600	8.4	18,500	7.0										
233	4400	1.45	27,900	10.0	22,400	8.8										
244	4600	1.58	30,900	12.0	25,900	10.5	20,100	9.1								
255	4800	1.72	33,800	14.5	29,300	13.0	24,200	11.0	17,500	9.4						
266	5000	1.87	36,900	17.0	32,400	15.5	27,800	13.5	22,600	12.0						
278	5250	2.06	40,500	20.0	36,200	18.5	32,000	17	27,300	15.0	21,300	13.0				
292	5500	2.26	43,700	23.5	39,800	22.5	35,700	20	31,600	18.5	27,200	16.5	21,600	14.5		
305	5750	2.47	47,000	28	43,500	26	39,700	24	35,800	22.5	31,600	20	27,200	18.5		
318	6000	2.69	50,200	32	47,000	30	43,400	29	39,600	27	35,900	25	32,000	23	27,400	21
332	6250	2.92	53,400	37	50,100	35	46,900	33	43,400	31	39,900	29	36,000	27	32,400	25
345	6500	3.16	56,700	43	53,500	40	50,500	38	47,100	36	43,700	34	40,200	32	36,700	30
358	6750	3.40	59,700	48	56,700	46	53,700	44	50,600	42	47,300	40	43,000	37	40,900	36
372	7000	3.66	62,700	54	59,700	52	57,000	50	54,200	48	51,200	46	48,000	44	44,500	41
398	7500	4.20	68,700	68	66,200	66	63,500	64	61,000	62	58,300	58	54,400	56	52,600	55
425	8000	4.79	74,100	84	72,300	82	70,000	80	67,300	76	65,000	74	62,200	72	59,700	68
451	8500	5.40			78,000	98	76,000	98	73,600	94	71,400	92	69,000	88	66,700	86
478	9000	6.05			84,300	120	82,100	120	80,000	115	77,700	110	75,400	110	73,400	105
504	9500	6.75					88,000	140	85,900	135	84,100	135	82,000	130	80,000	130
530	10000	7.47					93,800	165	91,400	160	90,200	160	88,200	155	86,200	150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
332	6250	2.92	27,900	23												
345	6500	3.16	33,000	28	28,300	26										
358	6750	3.40	37,000	33	33,400	31										
372	7000	3.66	41,500	39	38,000	37	30,200	32								
398	7500	4.20	49,400	52	46,200	50	39,800	44	32,500	39						
425	8000	4.79	57,100	66	54,000	64	48,500	60	42,600	54						
451	8500	5.40	64,000	84	61,600	82	56,400	76	50,800	70	39,100	58				
478	9000	6.05	71,000	105	68,700	100	64,000	94	58,600	88	46,400	78	35,700	64		
504	9500	6.75	77,600	125	75,700	120	71,000	115	66,500	110	56,900	98	46,500	86	32,400	72
530	10000	7.47	84,000	150	82,100	145	77,900	140	73,700	135	64,800	120	55,400	110	45,000	82

Double Inlet **Single Width**

110" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
81	1400	0.147	5,350	0.21												
93	1600	0.191	7,740	0.37												
104	1800	0.242	9,910	0.58												
116	2000	0.299	11,900	0.85	7,810	0.62										
128	2200	0.362	13,800	1.20	10,300	0.94										
139	2400	0.430	15,700	1.60	12,500	1.30	8,990	1.05								
150	2600	0.505	17,500	2.10	14,600	1.80	11,400	1.50	7,590	1.15						
162	2800	0.585	19,100	2.65	16,600	2.30	13,800	2.00	10,700	1.65						
174	3000	0.673	20,900	3.30	18,500	2.95	16,000	2.65	13,200	2.30	10,100	1.95				
185	3200	0.765	22,600	4.10	20,300	3.65	18,000	3.30	15,500	2.95	12,800	2.60	9,560	2.15		
197	3400	0.864	24,200	4.95	22,200	4.5	20,100	4.15	17,700	3.75	15,200	3.35	12,600	2.95		
208	3600	0.969	25,900	6.0	24,000	5.5	21,900	5.1	19,800	4.65	17,600	4.25	15,200	3.85	12,600	3.40
220	3800	1.08	27,600	7.0	25,700	6.5	23,900	6.1	21,900	5.7	19,800	5.3	17,600	4.8	15,300	4.35
232	4000	1.20	29,100	8.3	27,500	7.8	25,700	7.3	23,900	6.9	21,900	6.4	20,000	5.9	17,900	5.5
243	4200	1.32	30,800	9.7			27,400	8.6	25,800	8.1	24,000	7.6	22,000	7.1	20,100	6.6
254	4400	1.45	32,500	11.0			29,300	10.0	27,600	9.5	25,900	9.0	24,200	8.5	22,400	8.0
266	4600	1.58	34,000	13.0			31,100	11.5	29,600	11.0	27,900	10.5	26,200	10.0	24,400	9.5
278	4800	1.72	35,600	15.0			32,700	13.5	31,400	12.5	29,800	12.0	28,300	11.5	26,600	11.0
290	5000	1.87	37,300	16.5			34,500	15.5	33,100	14.5	31,700	14.0	30,200	13.5	28,700	13.0
304	5250	2.06	39,300	19.5					35,200	17	34,000	16.5	32,700	16.0	31,100	15.5
318	5500	2.26	41,100	22					37,500	20	36,200	19.5	34,700	18.5	33,500	18.0
332	5750	2.47	43,100	25					39,800	23	38,500	22.5	37,100	21.5	36,000	21.0
348	6000	2.69	45,100	29							40,500	26	39,400	25	38,200	24.5
361	6250	2.92	47,100	33							42,700	29	41,600	29	40,500	28
376	6500	3.16	49,100	37									43,900	33	42,800	32
390	6750	3.40	51,100	41									46,000	37	44,900	36
405	7000	3.66	53,000	46									48,200	42	47,200	41
435	7500	4.20	57,000	58											51,500	50

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
220	3800	1.08	12,800	3.85												
232	4000	1.20	15,600	5.0												
243	4200	1.32	18,100	6.2	13,600	5.1										
254	4400	1.45	20,500	7.5	16,500	6.5										
266	4600	1.58	22,800	9.0	19,000	7.9	11,800	6.7								
278	4800	1.72	24,900	10.5	21,600	9.5	17,800	8.3	12,800	6.9						
290	5000	1.87	27,100	12.5	23,900	11.0	20,400	10.0	16,600	8.8						
304	5250	2.06	29,800	15.0	26,700	13.5	23,500	12.5	20,000	11.0	15,700	9.5				
318	5500	2.26	32,200	17.5	29,300	16.5	26,300	15.0	23,200	13.5	19,000	12.0	15,800	11.0		
332	5750	2.47	34,600	20.5	32,000	19.0	29,200	18.0	26,300	16.5	23,200	15.0	19,900	13.5		
348	6000	2.69	36,900	23.5	34,600	22.5	31,900	21.0	29,100	19.5	26,400	18.0	23,500	16.5	20,100	15.5
361	6250	2.92	39,300	27	36,900	26	34,500	24.5	31,900	23	29,200	21.5	26,500	20	23,800	18.5
376	6500	3.16	41,800	31	39,400	30	37,100	28	34,600	27	32,200	25	29,500	24	27,000	22
390	6750	3.40	44,000	36	41,800	34	39,500	32	37,200	31	34,800	29	32,200	28	30,000	26
405	7000	3.66	46,100	40	44,000	38	42,000	37	39,800	35	37,700	34	35,200	32	32,700	30
435	7500	4.20	50,600	50	48,700	49	46,800	47	44,700	45	42,800	43	40,700	42	38,600	40
464	8000	4.79	54,500	62	53,100	60	51,500	58	49,400	56	47,700	54	45,700	52	43,800	50
491	8500	5.40			57,400	72	56,000	72	54,100	70	52,500	68	50,700	66	49,000	64
520	9000	6.05			62,000	88	60,400	86	58,700	84	57,100	82	55,400	80	53,900	78
550	9500	6.75					64,600	105	63,100	100	61,800	98	60,300	96	58,800	94
578	10000	7.47					69,000	120	67,400	120	66,100	115	64,600	115	63,200	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
361	6250	2.92	20,500	17												
376	6500	3.16	24,200	21	20,800	19										
390	6750	3.40	27,200	24	24,500	23										
405	7000	3.66	30,500	29	27,900	27	22,200	23								
435	7500	4.20	36,300	38	34,100	37	29,200	33	23,900	29						
464	8000	4.79	42,000	49	39,000	48	35,600	43	31,300	40						
491	8500	5.40	47,000	62	45,200	60	41,400	56	37,300	52	28,700	43				
520	9000	6.05	52,100	76	50,500	74	46,900	70	43,000	66	35,600	56	26,200	48		
550	9500	6.75	57,000	92	55,600	90	52,200	86	48,800	82	41,700	72	34,200	64	23,800	52
578	10000	7.47	61,800	110	60,300	105	57,200	105	54,200	98	47,500	90	40,600	80	33,000	60

Double Inlet

160" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1100	0.147	10,000	0.42												
64	1600	0.191	15,400	0.74												
72	1800	0.242	19,700	1.15												
79	2000	0.299	23,700	1.70	15,500	1.25										
87	2200	0.362	27,500	2.35	20,400	1.85										
95	2400	0.430	31,200	3.15	21,800	2.65	17,700	2.05								
103	2600	0.505	34,700	4.15	29,000	3.55	22,700	2.95	15,100	2.3						
110	2800	0.585	38,000	5.2	32,900	4.6	27,400	4.0	21,200	3.3						
119	3000	0.673	41,500	6.6	36,700	5.9	31,700	5.2	26,200	4.5	20,000	3.9				
127	3200	0.765	44,900	8.1	40,500	7.3	35,800	6.6	30,800	5.9	25,500	5.1	19,100	4.3		
135	3400	0.864	48,200	9.8	44,100	9.0	39,900	8.3	35,200	7.5	30,300	6.7	25,100	5.9		
143	3600	0.969	51,500	12.0	47,600	11.0	43,600	10.0	39,300	9.3	35,000	8.4	30,200	7.7	25,100	6.7
151	3800	1.08	54,900	14.0	51,000	13.0	47,500	12.0	43,500	11.5	39,300	10.5	35,100	9.5	30,500	8.7
159	4000	1.20	57,900	16.5	54,700	15.5	51,200	14.5	47,500	13.5	43,600	12.5	39,700	12	35,500	11
167	4200	1.32	61,200	19			54,500	17	51,200	16	47,600	15	43,800	14	39,900	13
175	4400	1.45	64,500	22			58,200	20	54,900	19	51,500	18	48,200	17	44,500	16
183	4600	1.58	67,700	25			61,800	23	58,800	22	55,500	21	52,100	20	48,600	19
191	4800	1.72	60,800	29			65,100	26	62,300	25	59,100	24	56,200	23	52,900	22
199	5000	1.87	74,100	33			68,600	30	65,900	29	63,000	28	60,100	27	57,100	26
209	5250	2.06	78,000	38					70,100	34	67,500	33	64,700	32	62,000	31
219	5500	2.26	81,800	44					74,600	40	72,000	39	69,400	37	66,600	36
229	5750	2.47	85,600	50					79,000	46	76,500	45	73,900	43	71,600	42
239	6000	2.69	89,800	58							80,600	50	78,400	50	76,000	49
249	6250	2.92	93,600	66							84,900	58	82,700	58	80,600	56
258	6500	3.16	97,500	74									87,100	66	85,100	64
268	6750	3.40	102,000	82									91,400	74	89,200	72
278	7000	3.66	105,000	92									96,000	82	93,900	82
298	7500	4.20	113,000	115											103,000	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
151	3800	1.08	25,500	7.7												
159	4000	1.20	31,100	9.9												
167	4200	1.32	36,000	12.5	27,100	10.0										
175	4400	1.45	40,800	15.0	32,800	13.0										
183	4600	1.58	45,200	18.0	37,800	15.5	29,400	13.5								
191	4800	1.72	49,500	21.0	42,800	19.0	35,300	16.5	25,600	14.0						
199	5000	1.87	54,000	24.5	47,500	22.5	40,600	20.0	33,000	17.5						
209	5250	2.06	59,100	29	53,000	27	46,700	24.5	39,900	22	31,200	19				
219	5500	2.26	64,000	35	58,200	33	52,300	30	46,100	27	39,700	24	31,600	21.5		
229	5750	2.47	68,800	40	63,600	38	58,000	35	52,500	33	46,200	30	39,600	27		
239	6000	2.69	73,500	47	68,800	45	63,500	42	57,900	39	52,500	36	46,700	33	40,000	31
249	6250	2.92	78,000	54	73,500	52	68,600	49	63,500	46	58,300	43	52,700	40	47,300	36
258	6500	3.16	83,000	62	78,400	58	73,800	56	68,900	54	64,000	50	58,900	47	53,600	44
268	6750	3.40	87,400	70	83,000	68	78,600	64	74,000	62	59,200	58	64,100	54	59,700	52
278	7000	3.66	91,800	80	87,400	76	83,500	72	79,100	70	75,000	66	70,100	64	65,100	60
298	7500	4.20	101,000	100	96,900	96	93,000	92	89,000	90	85,100	86	81,000	82	76,900	80
318	8000	4.79	109,000	125	106,000	120	102,000	115	98,500	110	95,000	110	90,900	105	87,200	100
338	8500	5.40			114,000	145	111,000	140	107,000	140	104,000	135	101,000	130	97,500	125
358	9000	6.05			123,000	175	120,000	170	117,000	170	113,000	165	110,000	160	107,000	155
378	9500	6.75					129,000	205	125,000	200	122,000	195	120,000	190	117,000	185
398	10000	7.47					137,000	240	134,000	235	132,000	230	128,000	230	126,000	220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
249	6250	2.92	40,800	31												
258	6500	3.16	48,200	41	41,100	38										
268	6750	3.40	51,100	48	48,700	45										
278	7000	3.66	60,600	58	55,700	54	44,200	46								
298	7500	4.20	72,100	76	67,900	72	58,200	64	47,500	58						
318	8000	4.79	83,500	98	79,000	94	71,000	86	62,300	78						
338	8500	5.40	93,500	120	90,000	120	82,000	110	74,300	105	57,100	86				
358	9000	6.05	104,000	150	100,000	145	93,500	140	85,600	130	70,700	115	52,100	94		
378	9500	6.75	113,000	180	110,000	180	104,000	170	97,100	160	83,200	145	68,100	125	47,300	105
398	10000	7.47	123,000	220	120,000	215	111,000	200	108,000	195	94,600	180	80,900	160	65,600	120

Double Inlet

180" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
50	1400	0.147	13,300	0 52												
57	1600	0.191	19,300	0.92												
64	1800	0.242	24,600	1.45												
71	2000	0 299	29,700	2.10	19,400	1.55										
78	2200	0.362	34,400	2 95	25,500	2.35										
85	2400	0.430	39,000	3.95	31,000	3.30	22,100	2.55								
92	2600	0.505	43,500	5.2	36,300	4 45	28,400	3.7	18,900	2.85						
99	2800	0 585	47,500	6.6	41,200	5 8	34,200	5 0	26,500	4.1						
106	3000	0.673	52,000	8.3	46,000	7.4	39,700	6 5	32,700	5 7	25,100	4 85				
113	3200	0.765	56,100	10.0	50,600	9.1	41,800	8 3	38,500	7.1	31,900	6.4	23,800	5 4		
120	3400	0.864	60,300	12.5	55,200	11.5	49,900	10.5	44,100	9.4	37,900	8.4	31,400	7.3		
127	3600	0 969	64,500	15.0	59,600	13 5	54,600	12 5	49,100	11.5	43,700	10.5	37,800	9.6	31,400	8 4
135	3800	1.08	68,600	17.5	63,800	16.0	59,400	15.0	54,500	14 0	49,100	13.0	43,000	12	38,100	11.0
141	4000	1.20	72,400	20 5	68,400	19.5	64,000	18.0	59,400	17 0	51,500	16.0	49,600	15	44,500	13.5
149	4200	1.32	76,500	24			68,200	21.5	64,000	20.0	59,600	19.0	54,700	18	49,900	16.5
156	4400	1.45	80,900	28			72,900	25	68,600	23.5	64,500	22.5	60,300	21	55,700	20 0
163	4600	1 58	84,600	32			77,200	29	73,500	28	69,400	26	65,200	25	60,800	23.5
170	4800	1 72	88,600	37			81,500	33	78,000	32	74,000	30	70,300	29	66,100	28
177	5000	1.87	92,800	41			85,900	38	82,300	36	78,900	35	75,100	33	71,500	32
186	5250	2 06	97,700	48					87,600	43	84,500	41	81,000	40	77,500	38
194	5500	2 26	102,000	54					93,300	50	90,000	48	86,800	47	83,300	45
204	5750	2.47	107,000	64					98,800	58	95,700	56	92,300	54	89,500	52
212	6000	2.69	112,000	72							101,000	64	98,000	62	95,100	60
221	6250	2 92	117,000	82							106,000	74	103,000	72	101,000	70
230	6500	3.16	122,000	92									109,000	82	107,000	80
239	6750	3.40	127,000	105									114,000	92	112,000	90
248	7000	3.66	132,000	115									120,000	105	118,000	100
266	7500	4 20	142,000	140											128,000	125

.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
135	3800	1.08	31,900	9.5												
141	4000	1.20	38,900	12.5												
149	4200	1 32	45,100	15 5	33,900	13.0										
156	4400	1.45	51,000	18 5	41,000	16 0										
163	4600	1 58	56,600	22 5	47,400	19.5	36,700	16 5								
170	4800	1.72	62,000	26	53,600	23.5	44,200	20.5	31,900	17						
177	5000	1.87	67,500	31	59,400	28	50,800	25	41,300	22						
186	5250	2 06	74,000	37	66,400	34	58,500	31	49,900	28	39,000	23.5				
194	5500	2 26	80,000	43	72,900	41	65,400	37	57,700	34	49,700	30	39,500	27		
204	5750	2.47	86,100	50	79,500	48	72,600	44	65,400	41	57,800	37	49,700	33		
212	6000	2.69	91,900	58	86,000	56	79,400	52	72,400	48	65,700	45	58,400	42	50,100	39
221	6250	2.92	97,600	68	91,900	64	85,800	60	79 400	58	72,900	54	66,000	50	59,100	46
230	6500	3 16	104,000	78	97,000	74	92,400	70	86,100	66	80,100	62	73,000	60	67,100	56
239	6750	3.40	109,000	88	104,000	84	98,300	80	92,600	76	86,100	72	80,300	68	74,700	66
248	7000	3.66	115,000	100	109,000	96	104,000	92	99,200	88	93,800	84	87,700	80	81,500	76
266	7500	4 20	126,000	125	121,000	120	116,000	115	111,000	110	106,600	105	101,000	105	96,000	100
283	8000	4.79	136,000	155	132,000	150	128,000	145	123,000	140	119,000	135	114,000	130	109,000	125
301	8500	5.40			143,000	180	139,000	180	135,000	175	130,000	170	126,000	160	122,000	160
319	9000	6.05			154,000	220	150,000	215	146,000	205	142,000	200	138,000	200	134,000	195
336	9500	6.75					161,000	255	157,000	250	154,000	245	150,000	240	146,000	230
354	10000	7.47					172,000	300	168,000	300	165,000	290	161,000	280	157,000	290

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
221	6250	2 92	51,000	42												
230	6500	3 16	60,400	52	51,700	47										
239	6750	3.40	67,700	60	61,000	56										
248	7000	3 66	75,900	72	69,700	68	55,300	58								
266	7500	4 20	90,300	96	85,000	90	72,800	82	59,400	72						
283	8000	4.79	104,000	125	98,900	120	88,600	110	78,000	100						
301	8500	5 40	117,000	155	112,000	150	103,000	140	92,900	130	71,500	110				
319	9000	6 05	130,000	190	125,000	185	117,000	175	107,000	160	88,500	140	65,000	120		
336	9500	6 75	142,000	230	138,000	220	130,000	210	122,000	200	104,000	180	85,200	155	59,200	130
354	10000	7 47	154,000	270	150,000	265	142,000	260	135,000	245	118,000	220	101,000	200	82,300	150

Double Inlet **Single Width**

200" Steel Plate Fan—Design 1

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P
41	1400	0.147	17,700	0.70												
51	1600	0.191	25,600	1.20												
57	1800	0.242	32,700	1.95												
64	2000	0.299	39,400	2.80	25,800	2.050										
70	2200	0.362	45,700	3.9	33,900	3.100										
76	2400	0.430	51,700	5.3	41,200	4.352	29,400	3.4								
83	2600	0.505	57,700	6.9	48,100	5.9	37,700	4.9	25,100	3.8						
89	2800	0.585	63,100	8.7	54,200	7.6	45,400	6.6	35,200	5.5						
95	3000	0.673	69,000	11.5	61,000	9.8	52,600	8.7	43,500	7.5	33,300	6.4				
102	3200	0.765	74,500	13.5	67,100	12.0	59,500	11.0	51,100	9.8	42,400	8.5	31,700	7.2		
108	3400	0.864	80,000	16.5	73,300	15.0	66,200	13.5	58,500	12.5	50,300	11.0	41,700	9.7		
115	3600	0.969	85,500	19.5	79,100	18.0	72,400	16.5	65,300	15.5	58,000	14.0	50,200	12.5	41,600	11.0
121	3800	1.08	91,100	23	84,600	21.5	78,800	20	72,400	18.5	65,300	17.5	58,200	16.0	50,600	14.5
127	4000	1.20	96,000	27	90,800	26	85,000	21	78,900	22.5	72,100	21	66,000	19.5	59,000	18
134	4200	1.32	102,000	32			90,500	28	85,000	27	79,100	25	72,700	23.5	66,200	22
140	4400	1.45	107,000	37			96,600	33	91,100	31	85,600	30	80,000	28	74,000	27
146	4600	1.58	112,000	42			103,000	38	97,600	37	92,000	35	86,500	33	80,600	31
153	4800	1.72	118,000	49			108,000	44	104,000	42	98,200	40	93,400	39	87,800	36
159	5000	1.87	123,000	51			114,000	50	109,000	48	105,000	46	99,800	44	94,900	43
167	5250	2.06	130,000	64					116,000	56	112,000	54	107,000	54	103,000	50
175	5500	2.26	136,000	72					124,000	66	120,000	64	115,000	62	111,000	60
183	5750	2.47	142,000	84					131,000	76	127,000	74	123,000	72	119,000	70
191	6000	2.69	149,000	96							134,000	84	130,000	84	126,000	80
199	6250	2.92	155,000	110							141,000	98	137,000	94	134,000	92
207	6500	3.16	162,000	120									145,000	110	141,000	105
215	6750	3.40	169,000	135									152,000	120	148,000	120
223	7000	3.66	175,000	150									159,000	135	156,000	135
239	7500	4.20	188,000	190											170,000	170

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
121	3800	1.08	42,400	13.0												
127	4000	1.20	51,600	16.5												
134	4200	1.32	59,900	20.5	45,000	17.0										
140	4400	1.45	67,800	25	54,500	21.5										
146	4600	1.58	75,100	30	62,800	26	48,800	22								
153	4800	1.72	82,200	35	71,100	31	58,700	27	42,400	23						
159	5000	1.87	89,600	41	78,900	37	67,500	33	54,900	29						
167	5250	2.06	98,200	49	88,000	45	77,600	41	66,300	36	51,900	31				
175	5500	2.26	106,000	58	96,600	54	86,900	49	76,800	45	66,000	40	52,400	36		
183	5750	2.47	114,000	68	106,000	64	96,500	58	86,900	54	76,700	50	66,000	45		
191	6000	2.69	122,000	78	114,000	74	105,000	70	96,100	64	87,100	60	77,700	56	67,600	52
199	6250	2.92	130,000	90	122,000	84	114,000	80	105,000	76	96,800	72	87,500	66	78,600	60
207	6500	3.16	138,000	105	130,000	98	123,000	94	114,000	88	106,000	84	97,700	78	89,000	74
215	6750	3.40	145,000	115	138,000	110	131,000	105	123,000	100	115,000	96	106,000	90	99,200	86
223	7000	3.66	152,000	130	145,000	125	139,000	120	131,000	115	124,000	110	116,000	105	108,000	100
239	7500	4.20	167,000	165	161,000	160	154,000	155	148,000	150	140,000	145	134,000	140	128,000	130
255	8000	4.79	180,000	205	176,000	200	170,000	195	163,000	185	158,000	180	151,000	175	145,000	170
271	8500	5.40			189,000	240	185,000	235	179,000	230	173,000	220	168,000	220	162,000	210
287	9000	6.05			205,000	290	199,000	285	194,000	280	189,000	270	183,000	260	178,000	255
303	9500	6.75					214,000	340	209,000	330	204,000	330	199,000	320	194,000	310
319	10000	7.47					228,000	395	223,000	390	219,000	385	214,000	375	209,000	370

R.M.P.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
199	6250	2.92	67,800	56												
207	6500	3.16	80,100	68	68,700	62										
215	6750	3.40	90,000	80	81,000	76										
223	7000	3.66	101,000	94	92,500	90	73,100	78								
239	7500	4.20	120,000	125	113,000	120	96,800	110	78,900	95						
255	8000	4.79	139,000	165	131,000	160	117,000	145	103,000	130						
271	8500	5.40	155,000	200	149,000	195	139,000	185	123,000	170	95,000	145				
287	9000	6.05	173,000	250	167,000	245	155,000	230	142,000	215	117,000	190	86,700	155		
303	9500	6.75	188,000	300	181,000	300	172,000	280	161,000	270	138,000	240	113,000	210	78,600	175
319	10000	7.47	204,000	360	199,000	350	189,000	340	179,000	320	157,000	300	135,000	260	109,000	200

Double Inlet

220″ Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
40	1400	0.147	22,100	0.87												
46	1600	0.191	32,000	1.55												
52	1800	0.242	40,900	2.4												
58	2000	0.299	49,300	3.5	32,300	2.55										
64	2200	0.362	57,100	4.9	42,400	3.9										
69	2400	0.430	64,700	6.6	51,500	5.5										
75	2600	0.505	72,100	8.6	60,200	7.3	36,700	4.25								
81	2800	0.585	79,000	11.0	68,400	9.5	47,100	6.1	31,300	4.75						
87	3000	0.673	86,200	13.5	76,200	12.0	56,800	8.3	44,000	6.8						
93	3200	0.765	93,100	17.0	84,000	15.0	65,800	11.0	54,300	9.4	41,600	8.02				
98	3400	0.864	100,000	20.5	91,600	18.5	71,300	13.5	63,900	12.0	53,000	10.5	39,600	9.0		
104	3600	0.969	107,000	24.5	99,000	22.5	82,800	17	73,100	15.5	62,900	14.0	52,100	12.0		
110	3800	1.08	114,000	29	106,000	27	90,500	21	81,600	19.0	72,500	17.5	62,700	16.0	52,100	14.0
116	4000	1.20	120,000	34	114,000	32	98,500	25	90,500	23.5	81,600	21.5	72,800	20.0	63,300	18.0
121	4200	1.32	127,000	40			106,000	31	98,500	28	90,500	26	82,400	24.5	73,700	22.5
127	4400	1.45	134,000	46			113,000	35	106,000	33	98,900	32	90,800	29	82,700	27
133	4600	1.58	111,000	52			121,000	41	114,000	39	107,000	37	100,000	35	92,400	33
139	4800	1.72	147,000	62			128,000	48	122,000	46	115,000	43	108,000	41	101,000	39
145	5000	1.87	151,000	68			135,000	51	129,000	52	123,000	50	117,000	48	110,000	46
152	5250	2.06	162,000	80			142,000	62	137,000	60	131,000	58	125,000	56	119,000	54
159	5500	2.26	170,000	92					145,000	70	140,000	68	134,000	66	129,000	64
166	5750	2.47	178,000	105					155,000	82	149,000	80	144,000	78	138,000	74
171	6000	2.69	186,000	120					164,000	96	159,000	92	153,000	90	149,000	86
181	6250	2.92	195,000	135							167,000	105	163,000	105	158,000	100
188	6500	3.16	203,000	155							176,000	120	172,000	120	167,000	115
195	6750	3.40	211,000	170									181,000	135	177,000	130
202	7000	3.66	219,000	190									190,000	150	185,000	150
217	7500	4.20	235,000	235									199,000	170	195,000	170
															213,000	210

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2¼″ Water 1.30 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch	
110	3800	1.08	53,000	16.0												
116	4000	1.20	64,500	20.5												
121	4200	1.32	74,900	25	56,400	21										
127	4400	1.45	84,700	31	68,200	27										
133	4600	1.58	94,000	37	78,600	32	61,000	28								
139	4800	1.72	103,000	44	89,000	39	73,400	34	53,000	29						
145	5000	1.87	112,000	50	98,600	46	84,300	41	68,600	36						
152	5250	2.06	123,000	60	110,000	56	97,000	52	82,900	45	64,700	39				
159	5500	2.26	130,000	72	121,000	68	109,000	62	95,900	56	82,400	50	65,500	45		
166	5750	2.47	143,000	84	132,000	78	121,000	74	108,000	68	95,900	62	82,500	56		
171	6000	2.69	152,000	98	143,000	92	132,000	86	120,000	80	109,000	76	97,100	70	83,100	64
181	6250	2.92	162,000	110	152,000	105	142,000	100	181,000	96	121,000	88	109,000	82	98,200	76
188	6500	3.16	172,000	130	163,000	120	153,000	115	143,000	110	133,000	105	122,000	98	111,000	92
195	6750	3.40	182,000	145	172,000	140	163,000	135	154,000	125	144,000	120	133,000	115	124,000	110
202	7000	3.66	191,000	165	182,000	160	173,000	150	164,000	145	155,000	140	145,000	130	135,000	125
217	7500	4.20	209,000	210	201,000	200	193,000	195	185,000	185	176,000	180	168,000	120	159,000	165
231	8000	4.79	225,000	255	220,000	250	213,000	240	204,000	230	198,000	225	188,000	215	181,000	210
246	8500	5.40			237,000	300	231,000	295	223,000	290	217,000	280	209,000	270	202,000	260
260	9000	6.05			256,000	365	249,000	355	242,000	350	236,000	340	229,000	330	222,000	320
274	9500	6.75					267,000	425	261,000	420	255,000	410	249,000	400	242,000	390
289	10000	7.47					285,000	495	278,000	490	273,000	480	267,000	470	261,000	460

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾″ Water 1.59 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
181	6250	2.92	84,900	79												
188	6500	3.16	100,000	86	86,000	78										
195	6750	3.40	112,000	100	101,000	94										
202	7000	3.66	126,000	120	115,000	110	91,600	96								
217	7500	4.20	150,000	160	141,000	150	121,000	135	98,600	120						
231	8000	4.79	173,000	200	164,000	195	147,000	180	129,000	165						
246	8500	5.40	194,000	250	187,000	245	171,000	230	154,000	215	11,700	180				
260	9000	6.05	216,000	310	208,000	305	194,000	290	178,000	270	14,700	235	10,800	195		
271	9500	6.75	236,000	380	230,000	370	216,000	350	201,000	335	17,300	300	14,100	260	98,300	215
289	10000	7.47	256,000	450	249,000	445	236,000	425	224,000	405	19,700	370	16,800	330	130,000	250

Double Inlet **Single Width**

240" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
37	1400	0.147	24,600	0.97												
42	1600	0.191	35,600	1.7												
48	1800	0.242	45,600	2.7												
53	2000	0.299	55,000	3.9	35,900	2.85										
58	2200	0.362	63,600	5.5	47,200	4.35										
63	2400	0.430	71,700	7.3	59,500	6.1	40,900	4.75								
69	2600	0.505	80,400	9.6	67,100	8.2	52,600	6.8	34,900	5.3						
74	2800	0.585	88,000	12.0	76,200	10.5	63,400	9.2	49,000	7.6						
79	3000	0.673	96,100	15.5	85,000	13.5	73,500	12.0	60,500	10.5	46,400	9.0				
85	3200	0.765	104,000	19.0	93,600	17	82,900	15.5	71,300	13.5	59,100	12.0	44,100	10.0		
90	3400	0.864	112,000	22.5	102,000	21	92,300	19	81,500	17.5	70,100	15.5	58,100	13.5		
96	3600	0.969	119,000	27	110,000	25	101,000	23	91,000	21.5	89,000	19.5	70,000	18	58,100	15.5
100	3800	1.08	127,000	32	118,000	30	110,000	28	101,000	26	91,000	24	81,100	22	70,500	20
106	4000	1.20	134,000	38	127,000	36	118,000	34	110,000	32	101,000	29	91,000	27	82,200	25
111	4200	1.32	142,000	44			126,000	40	118,000	37	110,000	35	101,000	33	92,300	31
117	4400	1.45	149,000	52			135,000	46	127,000	44	119,000	41	112,000	39	103,000	37
122	4600	1.58	157,000	58			143,000	54	136,000	50	128,000	48	121,000	46	113,000	44
127	4800	1.72	164,000	68			151,000	62	144,000	58	137,000	56	130,000	54	122,000	50
132	5000	1.87	172,000	76			159,000	70	152,000	68	146,000	64	139,000	62	132,000	60
139	5250	2.06	181,000	88					162,000	80	156,000	76	150,000	71	143,000	70
146	5500	2.26	189,000	100					173,000	92	167,000	90	161,000	86	154,000	82
153	5750	2.47	198,000	115					183,000	105	177,000	105	171,000	100	166,000	98
159	6000	2.69	208,000	135							187,000	120	181,000	115	176,000	115
166	6250	2.92	217,000	150							197,000	135	192,000	130	187,000	130
172	6500	3.16	226,000	170									202,000	150	197,000	150
179	6750	3.40	235,000	190									212,000	170	207,000	165
185	7000	3.66	244,000	210									222,000	190	217,000	190
199	7500	4.20	262,000	265											237,000	235

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
100	3800	1.08	59,000	18												
106	4000	1.20	72,000	23												
111	4200	1.32	83,500	28	62,800	23.5										
117	4400	1.45	94,500	35	76,000	30										
122	4600	1.58	105,000	41	87,500	36	68,000	31								
127	4800	1.72	115,000	49	99,100	44	81,800	38	59,100	32						
132	5000	1.87	125,000	56	110,000	52	94,000	46	76,400	40						
139	5250	2.06	137,000	68	123,000	62	108,000	56	92,300	50	72,100	44				
146	5500	2.26	148,000	80	135,000	76	121,000	68	107,000	62	91,800	56	73,000	50		
153	5750	2.47	159,000	94	147,000	88	135,000	82	121,000	76	107,000	70	91,800	62		
159	6000	2.69	170,000	110	159,000	105	147,000	96	134,000	90	121,000	84	108,000	78	92,600	72
166	6250	2.92	181,000	125	170,000	120	159,000	115	147,000	105	135,000	100	122,000	92	109,000	84
172	6500	3.16	192,000	145	182,000	135	171,000	130	159,000	125	148,000	115	136,000	110	124,000	100
179	6750	3.40	202,000	165	192,000	155	182,000	150	171,000	140	160,000	135	148,000	125	138,000	120
185	7000	3.66	213,000	185	202,000	175	193,000	170	183,000	160	173,000	155	162,000	145	150,000	140
199	7500	4.20	233,000	230	224,000	225	215,000	215	206,000	205	197,000	200	187,000	190	178,000	185
212	8000	4.79	251,000	285	245,000	275	237,000	270	228,000	260	220,000	250	210,000	240	202,000	235
226	8500	5.40			264,000	335	258,000	330	249,000	320	242,000	310	233,000	300	225,000	290
239	9000	6.05			286,000	405	278,000	395	270,000	385	262,000	380	254,000	365	248,000	355
252	9500	6.75					298,000	475	290,000	460	284,000	455	278,000	440	270,000	435
265	10000	7.47					318,000	555	310,000	545	304,000	535	298,000	525	290,000	515

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
166	6250	2.92	94,200	78												
172	6500	3.16	111,000	96	90,600	88										
179	6750	3.40	125,000	110	113,000	105										
185	7000	3.66	140,000	130	129,000	125	102,000	110								
199	7500	4.20	167,000	175	157,000	170	135,000	150	110,000	135						
212	8000	4.79	193,000	225	183,000	220	164,000	200	144,000	185						
226	8500	5.40	216,000	280	208,000	275	190,000	255	172,000	240	132,000	200				
239	9000	6.05	240,000	350	232,000	340	216,000	320	198,000	300	163,000	260	120,000	220		
252	9500	6.75	262,000	420	256,000	415	240,000	395	224,000	375	192,000	330	157,000	290	109,000	240
265	10000	7.47	281,000	500	278,000	495	263,000	470	449,000	455	219,000	410	187,000	365	152,000	280

Double Inlet **Single Width**

260" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
34	1400	0.147	28,500	1.15												
39	1600	0.191	41,300	1.95												
44	1800	0.242	52,900	3.10												
49	2000	0.299	63,600	4.55	41,600	3.3										
54	2200	0.362	73,700	6.3	54,700	5.0										
59	2400	0.430	83,500	8.5	66,500	7.0	47,500	5.5								
64	2600	0.505	93,100	11.0	77,800	9.5	61,000	7.9	40,500	6.1						
69	2800	0.585	102,000	14.0	88,300	12.5	73,400	10.5	56,900	8.8						
73	3000	0.673	111,000	17.5	98,500	16.0	85,000	14.0	70,100	12	53,700	10.5				
78	3200	0.765	120,000	22	108,000	19.5	96,000	17.5	82,500	16	68,500	13.5	51,100	11.5		
83	3400	0.864	129,000	26	118,000	24	107,000	22	94,500	20	81,300	18.0	67,300	15.5		
88	3600	0.969	138,000	32	128,000	29	117,000	27	105,000	25	93,700	22.5	81,100	20.5	67,300	18
93	3800	1.08	147,000	38	137,000	35	127,000	33	117,000	30	105,000	28	94,000	26	81,700	23
98	4000	1.20	155,000	41	147,000	42	137,000	39	127,000	37	117,000	34	107,000	32	95,300	29
103	4200	1.32	164,000	52			146,000	46	137,000	43	128,000	41	117,000	38	107,000	35
108	4400	1.45	173,000	60			156,000	54	147,000	50	138,000	48	129,000	46	119,000	43
113	4600	1.58	182,000	68			166,000	62	157,000	58	149,000	56	140,000	54	130,000	50
117	4800	1.72	190,000	80			175,000	70	167,000	68	159,000	64	151,500	62	142,000	58
122	5000	1.87	199,000	88			184,000	82	177,000	78	169,000	76	161,000	72	153,000	68
129	5250	2.06	210,000	105					188,000	92	181,000	88	174,000	86	168,000	82
135	5500	2.26	220,000	120					200,000	105	193,000	105	186,000	100	179,000	96
141	5750	2.47	230,000	135					212,000	125	205,000	120	198,000	115	192,000	110
147	6000	2.69	240,000	155							216,000	135	210,000	135	204,000	130
153	6250	2.92	251,000	175							228,000	155	222,000	155	217,000	150
159	6500	3.16	262,000	195									234,000	175	228,000	170
165	6750	3.40	272,000	220									245,000	195	240,000	190
171	7000	3.66	282,000	245									258,000	220	252,000	220
184	7500	4.20	303,000	305											275,000	270

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
93	3800	1.08	68,400	20.5												
98	4000	1.20	83,300	27												
103	4200	1.32	96,600	33	72,800	27										
108	4400	1.45	109,000	40	88,000	34										
113	4600	1.58	121,000	48	102,000	42	78,800	36								
117	4800	1.72	133,000	56	115,000	50	94,800	44	68,500	37						
122	5000	1.87	145,000	66	127,000	60	109,000	54	88,600	47						
129	5250	2.06	159,000	78	142,000	72	125,000	66	107,000	58	83,600	50				
135	5500	2.26	172,000	92	156,000	88	140,000	80	124,000	72	107,000	66	84,700	58		
141	5750	2.47	185,000	110	171,000	100	156,000	94	140,000	88	124,000	80	106,000	72		
147	6000	2.69	197,000	125	185,000	120	170,000	110	155,000	105	141,000	98	125,000	90	107,000	81
153	6250	2.92	210,000	145	197,000	135	184,000	130	170,000	125	156,000	115	141,000	105	127,000	98
159	6500	3.16	223,000	165	210,000	160	198,000	150	184,000	145	171,000	135	158,000	125	144,000	120
165	6750	3.40	234,000	190	223,000	180	211,000	170	198,000	165	185,000	155	172,000	145	160,000	140
171	7000	3.66	246,000	215	234,000	205	224,000	195	212,000	190	201,000	180	188,000	170	175,000	160
184	7500	4.20	270,000	270	260,000	260	249,000	250	239,000	240	228,000	230	217,000	220	206,000	210
196	8000	4.79	291,000	330	282,000	320	275,000	310	264,000	300	254,000	290	244,000	280	234,000	270
208	8500	5.40			306,000	390	299,000	380	288,000	370	280,000	360	270,000	350	261,000	340
220	9000	6.05			331,000	470	322,000	460	314,000	450	304,000	440	295,000	425	288,000	415
233	9500	6.75					345,000	550	337,000	540	330,000	530	322,000	515	314,000	500
245	10000	7.47					368,000	640	360,000	635	353,000	625	345,000	610	338,000	600

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
153	6250	2.92	110,000	90												
159	6500	3.16	130,000	110	111,000	100										
165	6750	3.40	145,000	130	131,000	120										
171	7000	3.66	162,000	155	149,000	145	118,000	125								
184	7500	4.20	193,000	200	182,000	195	156,000	175	127,000	155						
196	8000	4.79	224,000	260	212,000	250	190,000	235	167,000	210						
208	8500	5.40	250,000	330	242,000	320	221,000	300	199,000	275	153,000	230				
220	9000	6.05	278,000	405	269,000	390	250,000	370	230,000	350	189,000	300	140,000	250		
233	9500	6.75	304,000	490	296,000	480	279,000	450	261,000	435	223,000	385	183,000	335	127,000	280
245	10000	7.47	330,000	585	322,000	570	305,000	550	289,000	525	254,000	475	217,000	425	176,000	320

Double Inlet

280" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
32	1400	0.147	33,300	1.3												
36	1600	0.191	48,000	2.3												
41	1800	0.242	61,600	3.6												
45	2000	0.299	74,200	5.3	48,600	3.85										
50	2200	0.362	86,000	7.4	63,900	5.9										
55	2400	0.430	97,500	9.9	77,600	8.2	55,300	6.4								
59	2600	0.505	109,000	13.0	90,700	11.0	71,100	9.2	47,200	7.1						
64	2800	0.585	119,000	16.5	103,000	14.5	85,500	12.5	66,300	10.5						
68	3000	0.673	130,000	20.5	115,000	18.5	99,200	16.5	81,800	14.0	62,600	12				
73	3200	0.765	140,000	25	127,000	22.5	112,000	20.5	96,300	18.5	79,800	16	59,600	13.5		
77	3400	0.864	151,000	31	138,000	28	125,000	26	110,000	23.5	94,700	21	78,500	18.5		
82	3600	0.969	161,000	37	149,000	34	136,000	31	123,000	29	109,000	26	94,500	24	78,500	21
86	3800	1.08	172,000	44	160,000	41	149,000	38	136,000	35	123,000	33	110,000	30	95,400	27
90	4000	1.20	181,000	52	171,000	48	160,000	46	149,000	43	136,000	40	124,000	37	111,000	34
95	4200	1.32	192,000	60			171,000	54	160,000	50	149,000	48	137,000	44	125,000	41
100	4400	1.45	202,000	70			182,000	62	172,000	60	161,000	56	151,000	54	139,000	50
105	4600	1.58	212,000	80			193,000	72	184,000	68	174,000	66	163,000	62	152,000	58
109	4800	1.72	222,000	92			204,000	82	195,000	80	185,000	76	176,000	72	165,000	68
114	5000	1.87	232,000	105			215,000	94	206,000	92	197,000	88	188,000	84	179,000	80
119	5250	2.06	244,000	120					219,000	105	211,000	105	203,000	100	194,000	96
125	5500	2.26	256,000	140					233,000	125	225,000	120	217,000	115	208,000	110
131	5750	2.47	268,000	160					217,000	145	240,000	140	231,000	135	224,000	130
136	6000	2.69	281,000	180							252,000	160	245,000	155	238,000	150
142	6250	2.92	293,000	205							266,000	185	259,000	180	252,000	175
148	6500	3.16	305,000	230									273,000	205	266,000	200
153	6750	3.40	318,000	260									286,000	230	279,000	225
159	7000	3.66	330,000	285									300,000	260	294,000	255
170	7500	4.20	354,000	355											321,000	315

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
86	3800	1.08	79,800	24												
90	4000	1.20	97,100	31												
95	4200	1.32	113,000	38	84,900	32										
100	4400	1.45	128,000	47	103,000	40										
105	4600	1.58	142,000	56	118,000	49	91,900	42								
109	4800	1.72	155,000	66	134,000	58	111,000	52	80,000	13						
114	5000	1.87	169,000	76	140,000	70	127,000	62	103,000	54						
119	5250	2.06	185,000	92	166,000	84	146,000	76	125,000	68	97,500	58				
125	5500	2.26	200,000	110	182,000	100	164,000	92	145,000	84	124,000	76	98,600	68		
131	5750	2.47	215,000	125	199,000	120	182,000	110	163,000	105	144,000	94	124,000	84		
136	6000	2.69	230,000	145	215,000	140	198,000	130	181,000	120	164,000	115	146,000	105	125,000	98
142	6250	2.92	244,000	170	230,000	160	215,000	150	198,000	145	182,000	135	165,000	125	150,000	115
148	6500	3.16	260,000	195	245,000	185	231,000	175	215,000	165	200,000	155	184,000	150	168,000	140
153	6750	3.40	273,000	220	260,000	210	246,000	200	231,000	190	216,000	180	201,000	170	187,000	160
159	7000	3.66	287,000	250	273,000	240	261,000	230	248,000	220	234,000	210	219,000	200	204,000	190
170	7500	4.20	315,000	315	303,000	300	291,000	290	279,000	280	266,000	270	258,000	260	238,000	250
182	8000	4.79	340,000	385	331,000	375	320,000	365	307,000	350	297,000	340	284,000	325	272,000	315
193	8500	5.40			357,000	450	348,000	445	336,000	430	328,000	420	315,000	405	304,000	395
205	9000	6.05			386,000	550	376,000	540	366,000	525	355,000	510	341,000	495	336,000	485
216	9500	6.75					402,000	640	393,000	625	384,000	615	375,000	600	365,000	585
227	10000	7.47					430,000	750	419,000	740	412,000	725	402,000	710	394,000	700

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
142	6250	2.92	128,000	105												
148	6500	3.16	151,000	130	129,000	120										
153	6750	3.40	170,000	150	155,000	140										
159	7000	3.66	190,000	180	174,000	170	138,000	145								
170	7500	4.20	225,000	240	212,000	230	182,000	200	148,000	140						
182	8000	4.79	261,000	310	247,000	295	222,000	270	195,000	250						
193	8500	5.40	292,000	380	282,000	370	258,000	350	232,000	320	179,000	270				
205	9000	6.05	324,000	470	314,000	460	291,000	435	268,000	405	221,000	350	163,000	295		
216	9500	6.75	354,000	570	346,000	560	325,000	530	304,000	510	260,000	450	212,000	390	148,000	325
227	10000	7.47	384,000	685	375,000	670	356,000	640	347,000	615	296,000	555	253,000	495	265,000	375

Double Inlet **Single Width**

300" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
30	1400	0.147	37,300	1.45												
34	1600	0.191	54,000	2.60												
38	1800	0.242	69,000	4.05												
42	2000	0.299	83,100	5.9	54,500	4.3										
47	2200	0.362	96,400	8.3	71,500	6.5										
51	2400	0.430	109,000	11.0	87,000	9.2	62,000	7.2								
55	2600	0.505	122,000	14.0	102,000	12.5	79,600	10.5	52,900	8.0						
59	2800	0.585	133,000	18.5	115,000	16.0	95,900	14.0	74,200	11.5						
64	3000	0.673	146,000	23	129,000	20.5	111,000	18.5	91,600	16.0	70,200	13.5				
68	3200	0.765	157,000	28	142,000	25	126,000	23	108,000	20.5	89,400	18.0	66,800	15.0		
72	3400	0.864	169,000	34	155,000	32	140,000	29	124,000	26	106,000	23.5	88,000	20.5		
76	3600	0.969	181,000	42	167,000	38	153,000	35	138,000	33	122,000	30	106,000	27	88,000	23.5
81	3800	1.08	192,000	49	179,000	46	166,000	43	153,000	39	138,000	37	123,000	33	107,000	30
85	4000	1.20	203,000	58	192,000	54	179,000	52	166,000	48	153,000	45	139,000	41	125,000	38
89	4200	1.32	215,000	68			191,000	60	179,000	56	167,000	54	153,000	50	140,000	46
93	4400	1.45	226,000	78			204,000	70	192,000	66	181,000	62	169,000	60	156,000	56
98	4600	1.58	237,000	88			216,000	80	206,000	78	191,000	74	183,000	70	170,000	66
102	4800	1.72	248,000	105			228,000	92	218,000	88	207,000	84	197,000	82	185,000	78
106	5000	1.87	260,000	115			241,000	105	231,000	100	221,000	98	211,000	91	200,000	90
111	5250	2.06	274,000	135					246,000	120	237,000	115	227,000	110	217,000	105
117	5500	2.26	287,000	155					262,000	140	252,000	135	243,000	130	233,000	125
122	5750	2.47	301,000	175					277,000	160	268,000	155	259,000	150	251,000	145
127	6000	2.69	314,000	200							283,000	180	275,000	175	267,000	170
133	6250	2.92	328,000	230							298,000	205	290,000	200	283,000	195
138	6500	3.16	342,000	260									306,000	230	298,000	225
143	6750	3.40	356,000	290									320,000	255	313,000	250
148	7000	3.66	369,000	320									336,000	290	329,000	285
159	7500	4.20	397,000	400											360,000	355

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
81	3800	1.08	89,400	27												
85	4000	1.20	109,000	35												
89	4200	1.32	126,000	43	95,000	36										
93	4400	1.45	143,000	52	115,000	45										
98	4600	1.58	159,000	62	133,000	54	103,000	47								
102	4800	1.72	174,000	71	150,000	66	124,000	58	89,600	48						
106	5000	1.87	189,000	86	166,000	78	142,000	70	116,000	62						
111	5250	2.06	207,000	105	186,000	94	164,000	86	140,000	78	100,000	66				
117	5500	2.26	224,000	120	204,000	115	183,000	105	162,000	94	139,000	86	110,000	76		
122	5750	2.47	241,000	140	223,000	135	203,000	125	183,000	115	162,000	105	139,000	94		
127	6000	2.69	258,000	165	241,000	155	222,000	145	203,000	135	184,000	125	164,000	115	140,000	110
133	6250	2.92	274,000	190	257,000	180	240,000	170	222,000	160	204,000	150	185,000	140	165,000	130
138	6500	3.16	291,000	220	275,000	205	259,000	195	241,000	185	224,000	175	206,000	165	188,000	155
143	6750	3.40	306,000	250	291,000	235	276,000	225	259,000	215	242,000	200	225,000	190	209,000	180
148	7000	3.66	322,000	280	306,000	265	292,000	255	277,000	245	262,000	235	246,000	220	228,000	210
159	7500	4.20	352,000	350	340,000	340	326,000	325	312,000	310	298,000	300	284,000	290	269,000	280
170	8000	4.79	380,000	430	371,000	420	359,000	410	344,000	390	332,000	380	318,000	365	306,000	355
180	8500	5.40			400,000	505	390,000	500	377,000	485	366,000	469	354,000	455	341,000	440
191	9000	6.05			432,000	615	421,000	600	410,000	585	398,000	575	386,000	555	375,000	540
201	9500	6.75					451,000	720	440,000	700	431,000	690	420,000	675	410,000	655
212	10000	7.47					481,000	840	470,000	825	462,000	815	450,000	795	441,000	785

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
133	6250	2.92	143,000	120												
138	6500	3.16	169,000	145	145,000	135										
143	6750	3.40	190,000	170	171,000	160										
148	7000	3.66	212,000	200	195,000	190	155,000	165								
159	7500	4.20	253,000	265	238,000	255	204,000	230	165,000	200						
170	8000	4.79	392,000	345	277,000	330	248,000	305	218,000	275						
180	8500	5.40	327,000	425	316,000	415	289,000	390	260,000	360	200,000	300				
191	9000	6.05	364,000	530	352,000	515	328,000	485	300,000	455	248,000	395	182,000	330		
201	9500	6.75	398,000	640	388,000	630	364,000	600	341,000	570	291,000	505	239,000	440	163,000	365
212	10000	7.47	432,000	770	421,000	750	399,000	715	378,000	690	331,000	620	284,000	555	230,000	420

Double Inlet

320" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
28	1400	0.147	42,100	1.65												
32	1600	0.191	60,900	2.9												
36	1800	0.242	78,000	4.6												
40	2000	0.299	94,000	6.7	61,500	4.9										
44	2200	0.362	109,000	9.4	80,700	7.4										
48	2400	0.430	123,000	12.5	98,100	10.5	70,000	8.1								
52	2600	0.505	138,000	16.5	115,000	14.0	90,000	11.5	59,700	9.0						
56	2800	0.585	150,000	21	130,000	18.0	108,000	16.0	83,900	13.0						
60	3000	0.673	164,000	26	145,000	23.5	126,000	20.5	103,000	18.0	79,300	15.5				
64	3200	0.765	178,000	32	160,000	29	142,000	26	122,000	23.5	101,000	20	75,500	17		
68	3400	0.864	191,000	39	175,000	36	158,000	33	139,000	30	120,000	26	99,400	23		
72	3600	0.969	204,000	47	189,000	43	173,000	40	156,000	37	138,000	33	120,000	30	99,400	27
76	3800	1.08	217,000	56	202,000	52	188,000	48	173,000	45	156,000	41	139,000	38	121,000	34
80	4000	1.20	229,000	64	217,000	62	203,000	58	188,000	54	172,000	50	157,000	47	141,000	43
84	4200	1.32	242,000	76			216,000	68	203,000	64	189,000	60	173,000	56	158,000	52
88	4400	1.45	255,000	88			231,000	78	217,000	71	204,000	70	191,000	68	176,000	64
92	4600	1.58	268,000	100			245,000	92	233,000	88	219,000	82	206,000	78	192,000	74
96	4800	1.72	280,000	115			258,000	105	247,000	100	234,000	96	222,000	92	209,000	86
100	5000	1.87	294,000	130			272,000	120	261,000	115	250,000	110	238,000	105	226,000	100
104	5250	2.06	309,000	150					277,000	135	267,000	130	256,000	125	247,000	120
109	5500	2.26	324,000	175					295,000	155	285,000	155	274,000	150	264,000	140
114	5750	2.47	339,000	200					313,000	180	303,000	175	292,000	170	283,000	165
119	6000	2.69	355,000	230							319,000	200	310,000	200	301,000	190
124	6250	2.92	371,000	260							336,000	230	328,000	225	319,000	220
129	6500	3.16	386,000	290									345,000	255	337,000	250
134	6750	3.40	402,000	325									362,000	290	353,000	285
139	7000	3.66	416,000	365									380,000	325	372,000	320
149	7500	4.20	418,000	450											406,000	400

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
76	3800	1.08	101,000	30												
80	4000	1.20	123,000	39												
84	4200	1.32	143,000	49	107,000	40										
88	4400	1.45	162,000	60	130,000	50										
92	4600	1.58	179,000	70	150,000	62	116,000	52								
96	4800	1.72	196,000	84	170,000	76	140,000	64	101,000	54						
100	5000	1.87	214,000	98	188,000	90	161,000	78	131,000	70						
104	5250	2.06	231,000	115	210,000	105	185,000	98	158,000	88	123,000	74				
109	5500	2.26	253,000	135	231,000	130	207,000	115	183,000	105	157,000	96	125,000	86		
114	5750	2.47	272,000	160	252,000	150	230,000	140	207,000	130	183,000	120	157,000	105		
119	6000	2.69	291,000	185	272,000	175	251,000	165	229,000	155	208,000	145	135,000	130	157,000	125
124	6250	2.92	309,000	215	291,000	205	272,000	190	251,000	180	230,000	170	208,000	160	187,000	145
129	6500	3.16	329,000	245	310,000	235	292,000	225	272,000	210	253,000	200	237,000	185	212,000	175
134	6750	3.40	346,000	280	329,000	265	311,000	255	292,000	240	274,000	230	251,000	215	236,000	205
139	7000	3.66	363,000	315	346,000	300	330,000	290	313,000	275	296,000	265	278,000	250	257,000	240
149	7500	4.20	398,000	395	383,000	380	368,000	365	352,000	350	337,000	310	320,000	330	304,000	315
159	8000	4.79	430,000	485	419,000	475	405,000	460	388,000	445	378,000	430	359,000	410	345,000	400
169	8500	5.40			451,000	570	441,000	565	426,000	545	413,000	530	399,000	515	385,000	500
179	9000	6.05			489,000	695	475,000	680	462,000	665	449,000	645	436,000	630	424,000	615
189	9500	6.75					509,000	820	496,000	790	486,000	780	474,000	760	462,000	710
199	10000	7.47					543,000	945	530,000	935	521,000	920	509,000	900	498,000	885

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
124	6250	2.92	162,000	135												
129	6500	3.16	191,000	165	164,000	150										
134	6750	3.40	214,000	190	193,000	180										
139	7000	3.66	240,000	225	220,000	210	175,000	185								
149	7500	4.20	286,000	300	269,000	290	230,000	250	188,000	225						
159	8000	4.79	330,000	390	313,000	375	280,000	315	246,000	310						
169	8500	5.10	370,000	480	356,000	470	323,000	440	293,000	405	226,000	340				
179	9000	6.05	410,000	595	397,000	580	370,000	550	339,000	515	280,000	450	206,000	375		
189	9500	6.75	458,000	735	438,000	710	411,000	675	384,000	640	329,000	570	269,000	495	187,000	415
199	10000	7.47	585,000	865	474,000	845	450,000	815	426,000	780	374,000	705	320,000	635	260,000	475

Double Inlet

360" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
25	1400	0.147	54,500	2.15												
28	1600	0.191	78,900	3.75												
32	1800	0.242	101,000	5.9												
35	2000	0.299	122,000	8.8	79,600	6.3										
39	2200	0.362	141,000	12	105,000	9.6										
42	2400	0.430	159,000	16	127,000	13.5	90,600	10.5								
46	2600	0.505	178,000	21	149,000	18.0	116,000	15.0	77,300	11.5						
50	2800	0.585	195,000	27	169,000	23.5	140,000	20.5	108,000	17						
53	3000	0.673	213,000	31	188,000	29	163,000	27	131,000	23	103,000	20				
57	3200	0.765	230,000	42	207,000	37	183,000	34	158,000	30	131,000	26	97,600	22		
60	3400	0.864	247,000	50	226,000	46	204,000	42	180,000	38	155,000	34	120,000	30		
64	3600	0.969	264,000	60	244,000	56	223,000	52	201,000	48	178,000	43	155,000	39	129,000	34
67	3800	1.08	281,000	72	264,000	66	243,000	62	223,000	58	201,000	54	180,000	49	156,000	44
71	4000	1.20	296,000	84	280,000	80	262,000	74	243,000	70	223,000	66	203,000	60	182,000	56
74	4200	1.32	313,000	98			279,000	88	262,000	82	244,000	78	224,000	72	204,000	68
78	4400	1.45	330,000	115			298,000	100	281,000	96	264,000	92	247,000	86	228,000	82
81	4600	1.58	347,000	130			313,000	120	301,000	110	284,000	105	267,000	100	249,000	96
85	4800	1.72	363,000	150			333,000	135	319,000	130	303,000	125	288,000	120	270,000	110
88	5000	1.87	380,000	170			351,000	155	337,000	150	323,000	145	308,000	135	292,000	130
93	5250	2.06	400,000	195					359,000	175	346,000	170	331,000	165	317,000	155
97	5500	2.26	419,000	225					382,000	200	368,000	200	355,000	190	341,000	185
102	5750	2.47	439,000	260					404,000	235	393,000	230	378,000	220	367,000	215
106	6000	2.69	459,000	295							413,000	260	401,000	255	389,000	250
111	6250	2.92	480,000	335							436,000	300	424,000	290	413,000	285
115	6500	3.16	500,000	375									446,000	330	436,000	325
119	6750	3.40	521,000	420									468,000	375	457,000	365
124	7000	3.66	540,000	470									491,000	425	481,000	415
133	7500	4.20	579,000	580											526,000	520

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
67	3800	1.08	131,000	30												
71	4000	1.20	159,000	50												
74	4200	1.32	184,000	62	139,000	52										
78	4400	1.45	209,000	76	169,000	66										
81	4600	1.58	231,000	92	194,000	80	150,000	68								
85	4800	1.72	253,000	105	219,000	96	181,000	84	131,000	70						
88	5000	1.87	276,000	125	243,000	115	208,000	100	169,000	90						
93	5250	2.06	303,000	150	271,000	140	239,000	125	204,000	110	160,000	96				
97	5500	2.26	328,000	180	298,000	165	268,000	150	236,000	140	203,000	125	162,000	110		
102	5750	2.47	352,000	205	326,000	195	298,000	180	268,000	170	237,000	155	204,000	140		
106	6000	2.69	376,000	240	353,000	230	325,000	215	296,000	200	270,000	185	210,000	170	205,000	160
111	6250	2.92	400,000	280	376,000	260	352,000	250	325,000	235	298,000	220	270,000	205	242,000	185
115	6500	3.16	426,000	320	461,000	300	378,000	290	352,000	270	328,000	260	301,000	240	274,000	225
119	6750	3.40	449,000	360	426,000	345	403,000	330	379,000	310	354,000	300	329,000	280	306,000	265
124	7000	3.66	470,000	410	448,000	390	428,000	375	405,000	360	383,000	340	359,000	325	334,000	310
133	7500	4.20	515,000	510	496,000	495	476,000	475	456,000	455	435,000	440	414,000	425	393,000	410
141	8000	4.79	556,000	630	541,000	615	529,000	600	504,000	575	486,000	555	466,000	535	446,000	520
150	8500	5.40			585,000	740	570,000	730	550,000	705	535,000	685	516,000	665	499,000	645
159	9000	6.05			632,000	900	616,000	880	599,000	855	582,000	835	565,000	810	549,000	795
168	9500	6.75					660,000	1050	643,000	1000	630,000	1000	614,000	985	599,000	960
177	10000	7.47					704,000	1200	687,000	1200	674,000	1200	659,000	1160	645,000	1150

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
111	6250	2.92	200,000	175												
115	6500	3.16	217,000	210	212,000	195										
119	6750	3.40	277,000	250	250,000	230										
124	7000	3.66	310,000	290	285,000	275	226,000	240								
133	7500	4.20	369,000	390	348,000	370	298,000	320	243,000	295						
141	8000	4.79	427,000	505	405,000	485	363,000	445	319,000	405						
150	8500	5.40	478,000	625	460,000	610	422,000	570	380,000	525	292,000	450				
159	9000	6.05	532,000	770	513,000	750	479,000	710	438,000	665	362,000	580	267,000	485		
168	9500	6.75	580,000	935	566,000	920	532,000	870	498,000	830	426,000	740	349,000	645	242,000	535
177	10000	7.47	630,000	1100	614,000	1100	583,000	1050	552,000	1000	485,000	910	414,000	810	336,000	615

Double Inlet

400" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
22	1400	0.147	66,400	2.6												
25	1600	0.191	96,000	4.6												
29	1800	0.242	123,000	7.2												
32	2000	0.299	148,000	10.5	97,000	7.7										
35	2200	0.362	171,000	15	127,000	11.5										
38	2400	0.430	194,000	20	155,000	16.5	110,000	13.0								
41	2600	0.505	216,000	26	181,000	22	142,000	18.5	94,000	14.0						
45	2800	0.585	237,000	33	205,000	29	170,000	25	132,000	20.5						
48	3000	0.673	259,000	41	229,000	37	197,000	33	163,000	28	125,000	24				
51	3200	0.765	280,000	50	252,000	45	223,000	41	192,000	37	160,000	32	119,000	27		
54	3400	0.864	300,000	62	275,000	56	249,000	52	220,000	47	190,000	42	157,000	37		
57	3600	0.969	320,000	74	297,000	68	272,000	62	245,000	58	220,000	52	188,000	48	157,000	42
61	3800	1.08	342,000	88	318,000	80	296,000	76	272,000	70	245,000	66	218,000	60	190,000	54
64	4000	1.20	361,000	100	341,000	96	319,000	90	296,000	86	272,000	80	248,000	74	220,000	68
67	4200	1.32	382,000	120			340,000	105	319,000	100	297,000	94	270,000	88	249,000	82
70	4400	1.45	402,000	140			363,000	125	342,000	120	322,000	10	300,000	105	278,000	100
73	4600	1.58	422,000	160			385,000	145	368,000	135	346,000	130	325,000	125	303,000	115
76	4800	1.72	441,000	185			406,000	165	389,000	160	369,000	150	350,000	145	330,000	135
80	5000	1.87	463,000	205			428,000	190	410,000	180	393,000	175	375,000	165	356,000	160
84	5250	2.06	487,000	240					437,000	210	420,000	205	403,000	200	386,000	190
87	5500	2.26	510,000	275					465,000	250	449,000	240	432,000	230	415,000	220
91	5750	2.47	533,000	315					492,000	285	478,000	280	460,000	270	446,000	260
95	6000	2.69	560,000	360							502,000	320	488,000	310	474,000	300
99	6250	2.92	584,000	405							530,000	365	516,000	355	502,000	350
103	6500	3.16	608,000	460									544,000	405	530,000	400
107	6750	3.40	634,000	515									570,000	455	556,000	445
111	7000	3.66	656,000	570									597,000	515	585,000	505
119	7500	4.20	705,000	710											640,000	625

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .876 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
61	3800	1.08	159,000	48												
64	4000	1.20	193,000	62												
67	4200	1.32	224,000	76	169,000	64										
70	4400	1.45	254,000	94	204,000	80										
73	4600	1.58	282,000	110	236,000	98	183,000	82								
76	4800	1.72	308,000	130	267,000	115	220,000	100	159,000	86						
80	5000	1.87	336,000	155	298,000	140	253,000	125	206,000	110						
84	5250	2.06	369,000	185	330,000	170	291,000	155	248,000	135	194,000	115				
87	5500	2.26	399,000	215	363,000	200	326,000	185	288,000	170	247,000	150	197,000	135		
91	5750	2.47	428,000	250	396,000	235	362,000	220	326,000	205	288,000	185	247,000	170		
95	6000	2.69	458,000	295	429,000	275	395,000	260	360,000	240	327,000	225	291,000	210	250,000	195
99	6250	2.92	487,000	340	458,000	320	428,000	300	395,000	285	363,000	265	328,000	250	295,000	230
103	6500	3.16	519,000	390	487,000	370	459,000	350	429,000	330	399,000	310	366,000	295	334,000	275
107	6750	3.40	544,000	440	519,000	420	490,000	400	461,000	380	432,000	360	400,000	340	372,000	325
111	7000	3.66	572,000	495	545,000	475	520,000	455	493,000	435	467,000	415	437,000	395	406,000	375
119	7500	4.20	626,000	625	603,000	600	579,000	580	555,000	555	531,000	535	504,000	515	479,000	495
127	8000	4.79	675,000	765	660,000	745	638,000	725	613,000	695	591,000	675	567,000	650	543,000	630
135	8500	5.40			711,000	900	694,000	885	671,000	860	651,000	835	629,000	810	607,000	670
143	9000	6.05			769,000	1100	750,000	1050	728,000	1050	708,000	1000	687,000	900	669,000	965
151	9500	6.75					802,000	1300	782,000	1250	766,000	1200	748,000	1200	729,000	1150
159	10000	7.47					855,000	1500	836,000	1450	821,000	1450	802,000	1400	785,000	1400

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
99	6250	2.92	254,000	210												
103	6500	3.16	300,000	255	258,000	235										
107	6750	3.40	335,000	300	304,000	280										
111	7000	3.66	380,000	355	347,000	335	275,000	290								
119	7500	4.20	450,000	475	423,000	455	363,000	405	296,000	355						
127	8000	4.79	520,000	615	492,000	590	440,000	540	388,000	490						
135	8500	5.40	580,000	760	561,000	740	513,000	695	463,000	640	356,000	535				
143	9000	6.05	645,000	940	625,000	915	582,000	865	534,000	810	440,000	705	325,000	590		
151	9500	6.75	706,000	1150	689,000	1100	648,000	1050	605,000	1000	518,000	900	424,000	780	294,000	650
159	10000	7.47	765,000	1350	747,000	1350	709,000	1250	672,000	1200	590,000	1100	505,000	990	409,000	750

Double Inlet **Double Width**

30" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
295	1400	0.157	640	0.024												
339	1600	0.205	938	0.044												
382	1800	0.259	1,190	0.068	592	0.042										
425	2000	0.320	1,422	0.096	938	0.068										
467	2200	0.387	1,640	0.135	1,240	0.110	600	0.076								
510	2400	0.460	1,830	0.18	1,500	0.155	1,070	0.125								
551	2600	0.540	2,020	0.23	1,750	0.20	1,370	0.175	938	0.15						
595	2800	0.626	2,200	0.29	2,000	0.26	1,660	0.23	1,278	0.20						
637	3000	0.718	2,380	0.37	2,200	0.34	1,920	0.30	1,580	0.27	1,210	0.23				
680	3200	0.816	2,540	0.45	2,400	0.42	2,160	0.38	1,870	0.35	1,530	0.31	1,160	0.25		
721	3400	0.922	2,720	0.53	2,600	0.51	2,400	0.47	2,140	0.45	1,840	0.39	1,480	0.34	1,150	0.29
765	3600	1.03	2,900	0.66	2,760	0.62	2,600	0.58	2,380	0.53	2,120	0.49	1,800	0.45	1,510	0.40
806	3800	1.15	3,080	0.77	2,960	0.72	2,820	0.68	2,620	0.64	2,380	0.62	2,100	0.55	1,830	0.51
850	4000	1.28	3,240	0.89			3,020	0.83	2,800	0.77	2,640	0.75	2,420	0.68	2,160	0.64
891	4200	1.41	3,420	1.05			3,220	0.98	3,060	0.92	2,900	0.87	2,660	0.83	2,440	0.79
935	4400	1.54	3,580	1.20			3,400	1.10	3,260	1.05	3,120	1.00	2,920	0.98	2,680	0.94
976	4600	1.69	3,760	1.35			3,580	1.30	3,480	1.25	3,340	1.20	3,140	1.15	2,980	1.10
1019	4800	1.84	3,920	1.55			3,760	1.15	3,660	1.40	3,540	1.40	3,380	1.30	3,200	1.30
1060	5000	2.00	4,100	1.75					3,840	1.65	3,740	1.60	3,600	1.55	3,440	1.45
1113	5250	2.20	4,300	2.1					4,080	1.90	3,980	1.85	3,860	1.80	3,720	1.75
1168	5500	2.42	4,520	2.4					4,300	2.2	4,220	2.2	4,100	2.1	3,980	2.1
1220	5750	2.51	4,700	2.6							4,420	2.4	4,340	2.3	4,220	2.3
1272	6000	2.87	4,940	3.1							4,640	2.9	4,600	2.8	4,520	2.8
1328	6250	3.12	5,120	3.5									4,820	3.2	4,700	3.1
1380	6500	3.38	5,360	3.9									5,080	3.7	4,980	3.6
1431	6750	3.63	5,560	4.4											5,220	4.0
1486	7000	3.91	5,760	4.9											5,560	4.5
1590	7500	4.50	6,180	6												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
765	3600	1.03	1,180	0.34												
806	3800	1.15	1,530	0.45												
850	4000	1.28	1,872	0.60	1,290	0.51										
891	4200	1.41	2,180	0.72	1,640	0.60										
935	4400	1.54	2,460	0.87	1,950	0.75	1,420	0.60								
976	4600	1.69	2,760	1.00	2,280	0.94	1,780	0.79								
1019	4800	1.84	3,000	1.25	2,600	1.1	2,140	0.98	1,630	0.81						
1060	5000	2.00	3,260	1.4	2,880	1.3	2,460	1.20	2,000	1.0						
1113	5250	2.20	3,540	1.7	3,220	1.6	2,840	1.45	2,400	1.3	1,900	1.10				
1168	5500	2.42	3,840	2.0	3,540	1.9	3,160	1.75	2,780	1.6	2,400	1.45	1,970	1.30		
1220	5750	2.51	4,080	2.2	3,780	2.1	3,500	2.0	3,180	1.9	2,800	1.75	2,240	1.55		
1272	6000	2.87	4,400	2.7	4,140	2.5	3,840	2.4	3,520	2.3	3,160	2.1	2,800	2.0	2,420	1.75
1328	6250	3.12	4,660	3.1	4,420	2.9	4,140	2.8	3,860	2.7	3,560	2.5	3,200	2.5	2,840	2.2
1380	6500	3.38	4,900	3.5	4,680	3.4	4,420	3.2	4,200	3.1	3,900	2.9	3,560	2.8	3,240	2.6
1431	6750	3.63	5,140	4.0	4,960	3.8	4,720	3.7	4,480	3.5	4,200	3.4	3,920	3.2	3,620	3.1
1486	7000	3.91	5,360	4.5	5,200	4.3	5,000	4.2	4,760	4.0	4,520	3.9	4,260	3.7	3,960	3.5
1590	7500	4.50	5,840	5.8	5,700	5.5	5,520	5.3	5,320	5.1	5,100	4.9	4,880	4.8	4,640	4.7
1698	8000	5.11			6,160	6.8	6,040	6.6	5,880	6.4	5,700	6.2	5,480	6.0	5,280	6.0
1802	8500	5.76			6,620	8.2	6,520	8.0	6,340	7.9	6,220	7.7	6,040	7.4	5,880	7.2
1910	9000	6.46			7,080	9.8	6,960	9.6	6,860	9.4	6,740	9.2	6,580	9.1	6,440	8.7
2020	9500	7.20					7,440	11.5	7,320	11.5	7,200	11	7,080	11	6,980	10.5
2120	10000	7.98					7,920	13.5	7,800	13	7,700	13	7,580	13	7,460	13

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1328	6250	3.12	2,400	2.0												
1380	6500	3.38	2,880	2.4	2,520	2.2										
1431	6750	3.63	3,260	2.9	2,940	2.7										
1486	7000	3.91	3,660	3.4	3,380	3.2	2,680	2.8								
1590	7500	4.50	4,400	4.5	4,120	4.3	3,520	3.9	2,920	3.4						
1698	8000	5.11	5,060	5.7	4,820	5.5	4,300	5.1	3,740	4.7	2,560	3.7				
1802	8500	5.76	5,680	7.1	5,460	6.8	4,980	6.6	4,480	6.2	3,420	5.1				
1910	9000	6.46	6,260	8.7	6,040	8.5	5,660	8.1	5,200	7.7	4,240	6.6	3,240	5.5		
2020	9500	7.20	6,800	10.5	6,640	10.0	6,300	9.8	5,880	9.4	5,020	8.5	4,080	7.4	3,080	6.2
2120	10000	7.98	7,340	12.5	7,200	12.5	6,860	12	6,520	11.5	5,760	10.5	4,900	9.4	3,960	8.1

Double Inlet ## 35" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
255	1400	0.157	956	0.031												
291	1600	0.205	1,400	0.068												
328	1800	0.259	1,790	0.10	886	0.061										
364	2000	0.320	2,140	0.14	1,400	0.10										
400	2200	0.387	2,460	0.20	1,860	0.17	1,080	0.140								
436	2400	0.460	2,740	0.27	2,260	0.23	1,590	0.185								
473	2600	0.540	3,020	0.34	2,620	0.31	2,060	0.26	1,400	0.22						
509	2800	0.626	3,300	0.44	2,980	0.40	2,480	0.35	1,910	0.30						
545	3000	0.718	3,540	0.55	3,300	0.50	2,880	0.45	2,380	0.40	1,810	0.34				
581	3200	0.816	3,820	0.67	3,600	0.62	3,240	0.57	2,800	0.52	2,300	0.46	1,740	0.38		
619	3400	0.922	4,080	0.80	3,880	0.77	3,600	0.70	3,220	0.67	2,760	0.59	2,220	0.51	1,730	0.43
655	3600	1.03	4,340	1.00	4,140	0.92	3,900	0.86	3,580	0.80	3,180	0.73	2,700	0.67	2,260	0.60
690	3800	1.15	4,600	1.15	4,440	1.1	4,240	1.00	3,900	0.96	3,580	0.92	3,160	0.83	2,740	0.77
727	4000	1.28	4,860	1.35			4,520	1.25	4,260	1.15	3,960	1.10	3,600	1.00	3,220	0.96
764	4200	1.41	5,120	1.55			4,820	1.45	4,580	1.4	4,340	1.30	4,000	1.25	3,660	1.20
800	4400	1.54	5,380	1.8			5,080	1.65	4,900	1.6	4,680	1.55	4,360	1.45	4,020	1.40
837	4600	1.69	5,620	2.0			5,360	1.95	5,220	1.9	5,020	1.8	4,720	1.7	4,440	1.65
873	4800	1.84	5,860	2.3			5,620	2.2	5,480	2.1	5,280	2.1	5,060	2.0	4,800	1.9
910	5000	2.00	6,120	2.6					5,760	2.5	5,600	2.4	5,400	2.3	5,140	2.2
955	5250	2.20	6,440	3.1					6,120	2.9	5,960	2.8	5,800	2.7	5,580	2.6
1000	5500	2.42	6,760	3.6					6,440	3.4	6,320	3.3	6,140	3.2	5,980	3.1
1046	5750	2.54	7,060	3.9							6,620	3.6	6,500	3.5	6,320	3.4
1090	6000	2.87	7,400	4.6							6,960	4.3	6,900	4.2	6,760	4.1
1137	6250	3.12	7,700	5.2									7,240	4.8	7,040	4.7
1181	6500	3.38	8,020	5.9									7,600	5.5	7,460	5.4
1228	6750	3.63	8,280	6.6											7,800	6.0
1271	7000	3.91	8,620	7.3											8,160	6.7
1362	7500	4.50	9,240	8.9												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
655	3600	1.03	1,770	0.50												
690	3800	1.15	2,300	0.67												
727	4000	1.28	2,800	0.90	1,930	0.76										
764	4200	1.41	3,260	1.10	2,460	0.89										
800	4400	1.54	3,680	1.30	2,920	1.10	2,140	0.89								
837	4600	1.69	4,140	1.55	3,420	1.40	2,680	1.20								
873	4800	1.84	4,500	1.85	3,880	1.75	3,180	1.45	2,440	1.20						
910	5000	2.00	4,900	2.1	4,320	1.95	3,660	1.8	2,980	1.55						
955	5250	2.20	5,320	2.5	4,820	2.4	4,240	2.2	3,580	1.95	2,940	1.7				
1000	5500	2.42	5,700	3.0	5,320	2.8	4,760	2.6	4,160	2.40	3,580	2.2	2,960	1.9		
1046	5750	2.54	6,100	3.3	5,680	3.2	5,260	3.0	4,760	2.8	4,200	2.6	3,360	2.3		
1090	6000	2.87	6,560	4.0	6,180	3.8	5,740	3.6	5,260	3.4	4,740	3.2	4,200	3.0	3,620	2.7
1137	6250	3.12	6,980	4.7	6,620	4.4	6,200	4.2	5,780	4.0	5,340	3.8	4,780	3.6	4,240	3.3
1181	6500	3.38	7,340	5.3	7,020	5.0	6,640	4.8	6,280	4.7	5,840	4.3	5,340	4.2	4,860	4.0
1228	6750	3.63	7,700	6.0	7,440	5.8	7,080	5.5	6,700	5.3	6,320	5.1	5,860	4.8	5,440	4.6
1271	7000	3.91	8,040	6.7	7,780	6.4	7,400	6.2	7,140	6.0	6,760	5.8	6,380	5.6	5,940	5.3
1362	7500	4.50	8,740	8.6	8,540	8.3	8,300	8.0	7,980	7.6	7,720	7.3	7,340	7.2	6,960	7.0
1453	8000	5.11			9,240	10	9,060	9.9	8,800	9.6	8,540	9.2	8,220	9.0	7,920	8.9
1545	8500	5.76			9,940	12	9,760	12.0	9,500	12	9,300	11.5	9,080	11.0	8,800	11
1637	9000	6.46			10,600	15	10,500	14.5	10,300	14	10,100	14.0	9,880	13.5	9,620	13
1728	9500	7.20					11,200	17	11,000	17	10,800	16.5	10,600	16	10,500	16
1819	10000	7.98					11,900	20	11,700	20	11,500	20	11,400	19	11,200	19

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1137	6250	3.12	3,700	3.0												
1181	6500	3.38	4,320	3.7	3,780	3.3										
1228	6750	3.63	4,900	4.3	4,400	4.0										
1271	7000	3.91	5,480	5.1	5,060	4.8	4,040	4.1								
1362	7500	4.50	6,580	6.7	6,160	6.4	5,260	5.8	4,360	5.1						
1453	8000	5.11	7,580	8.6	7,200	8.3	6,440	7.6	5,600	7.0	3,820	5.5				
1545	8500	5.76	8,540	10.5	8,100	10.0	7,460	9.9	6,700	9.2	5,120	7.7				
1637	9000	6.46	9,380	13.0	9,160	13.0	8,500	12.0	7,780	11.5	6,360	9.9	4,840	8.3		
1728	9500	7.20	10,200	15.5	9,940	15.5	9,440	14.5	8,800	14	7,520	13.0	6,120	11	4,620	9.2
1819	10000	7.98	11,000	19	10,800	18.5	10,300	18	9,760	17	8,600	15.5	7,340	14	5,940	12

Double Inlet

40" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¼" Water .145 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅜" Water .217 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ½" Water .289 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅝" Water .361 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ¾" Water .434 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure ⅞" Water .506 ozs. per sq. inch Volume C.F.M.	H. P.
223	1400	0.157	1,250	0.048												
255	1600	0.205	1,840	0.088												
287	1800	0.259	2,340	0.135	1,160	0.082										
318	2000	0.320	2,780	0.19	1,840	0.135										
350	2200	0.387	3,200	0.26	2,410	0.22	1,410	0.15								
382	2400	0.460	3,580	0.35	2,940	0.30	2,080	0.24								
414	2600	0.540	3,940	0.45	3,420	0.40	2,680	0.31	1,810	0.29						
445	2800	0.626	4,300	0.58	3,900	0.52	3,240	0.46	2,500	0.39						
478	3000	0.718	4,660	0.72	4,320	0.66	3,760	0.59	3,100	0.53	2,360	0.44				
510	3200	0.816	4,980	0.88	4,700	0.82	4,240	0.74	3,680	0.68	3,000	0.60	2,280	0.50		
541	3400	0.922	5,340	1.05	5,080	1.0	4,700	0.92	4,200	0.88	3,600	0.77	2,900	0.67	2,260	0.57
573	3600	1.03	5,680	1.30	5,400	1.2	5,100	1.10	4,680	1.05	4,160	0.98	3,520	0.88	2,960	0.78
605	3800	1.15	6,020	1.50	5,800	1.4	5,520	1.35	5,120	1.25	4,680	1.20	4,140	1.10	3,580	1.00
637	4000	1.28	6,360	1.75			5,920	1.6	5,560	1.5	5,180	1.45	4,720	1.35	4,220	1.25
670	4200	1.41	6,700	2.0			6,300	1.9	6,000	1.8	5,680	1.7	5,220	1.6	4,780	1.55
700	4400	1.54	7,040	2.3			6,640	2.2	6,400	2.1	6,120	2.0	5,700	1.9	5,260	1.85
732	4600	1.69	7,360	2.7			7,020	2.5	6,820	2.5	6,560	2.4	6,160	2.3	5,820	2.2
765	4800	1.84	7,660	3.0			7,360	2.9	7,180	2.8	6,920	2.7	6,620	2.6	6,280	2.5
796	5000	2.00	8,020	3.5					7,520	3.2	7,300	3.1	7,060	3.0	6,720	2.9
836	5250	2.20	8,420	4.0					8,000	3.7	7,800	3.6	7,580	3.6	7,280	3.4
875	5500	2.42	8,840	4.7					8,420	4.4	8,280	4.3	8,040	4.2	7,800	4.0
915	5750	2.54	9,240	5.1							8,660	4.7	8,500	4.6	8,260	4.5
955	6000	2.87	9,680	6.0							9,100	5.6	9,000	5.5	8,840	5.4
996	6250	3.12	10,100	6.8									9,460	6.3	9,200	6.2
1034	6500	3.38	10,500	7.7									9,920	7.3	9,760	7.0
1074	6750	3.63	10,900	8.6											10,200	7.9
1115	7000	3.91	11,300	9.6											10,700	8.8
1193	7500	4.50	12,100	11.5												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.1 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
573	3600	1.03	2,320	0.66												
605	3800	1.15	3,000	0.88												
637	4000	1.28	3,680	1.15	2,520	1.00										
670	4200	1.41	4,260	1.4	3,200	1.20										
700	4400	1.54	4,820	1.7	3,820	1.50	2,780	1.15								
732	4600	1.69	5,420	2.0	4,460	1.85	3,500	1.55								
765	4800	1.84	5,900	2.4	5,080	2.2	4,180	1.9	3,180	1.6						
796	5000	2.00	6,400	2.8	5,640	2.5	4,800	2.3	3,900	2.0						
836	5250	2.20	6,960	3.3	6,320	3.1	5,560	2.9	4,700	2.5	3,840	2.2				
875	5500	2.42	7,520	3.9	6,960	3.7	6,210	3.5	5,460	3.2	4,680	2.8	3,800	2.5		
915	5750	2.54	7,980	4.3	7,440	4.1	6,880	3.9	6,020	3.7	5,480	3.5	4,400	3.0		
955	6000	2.87	8,600	5.3	8,100	4.9	7,520	4.8	6,880	4.5	6,200	4.2	5,480	3.9	4,720	3.5
996	6250	3.12	9,120	6.1	8,660	5.8	8,120	5.5	7,560	5.3	7,000	4.9	6,260	4.6	5,560	4.3
1034	6500	3.38	9,600	6.9	9,180	6.6	8,680	6.3	8,200	6.1	7,640	5.7	7,000	5.5	6,300	5.2
1074	6750	3.63	10,100	7.8	9,720	7.5	9,260	7.2	8,760	6.9	8,260	6.7	7,680	6.3	7,100	6.0
1115	7000	3.91	10,500	8.8	10,200	8.3	9,760	8.2	9,340	7.8	8,840	7.6	8,360	7.3	7,760	6.9
1193	7500	4.50	11,400	11	11,200	11.0	10,800	10.5	10,400	10.0	10,100	9.5	9,600	9.5	9,100	9.2
1273	8000	5.11			12,100	13.0	11,800	13	11,500	12.5	11,200	12	10,700	12.0	10,300	11.5
1352	8500	5.76			13,000	16.0	12,800	16	12,400	15.5	12,200	15	11,900	14.5	11,500	14
1433	9000	6.46			13,900	19.5	13,700	19	13,400	18.5	13,200	18	12,900	17	12,600	17
1511	9500	7.20					14,000	23	14,400	23	14,100	22	13,900	21	13,700	21
1591	10000	7.98					15,500	27	15,300	26	15,100	26	14,900	25	14,600	25

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
996	6250	3.12	4,820	3.9												
1034	6500	3.38	5,660	4.8	4,940	4.3										
1074	6750	3.63	6,400	5.6	5,760	5.3										
1115	7000	3.91	7,180	6.6	6,600	6.3	5,280	5.4								
1193	7500	4.50	8,620	8.8	8,080	8.3	6,880	7.6	5,700	6.7						
1273	8000	5.11	9,920	11	9,420	11.0	8,420	10	7,320	9.2	5,000	7.2				
1352	8500	5.76	11,200	14	10,700	13.5	9,780	13	8,780	12.0	6,700	10.0				
1433	9000	6.46	12,300	17	11,900	16.5	11,100	16	10,200	15.0	8,320	13.0	6,340	11.0		
1511	9500	7.20	13,300	20	13,000	20	12,400	19	11,500	18.5	9,840	16.5	8,000	14.5	3,020	6.0
1591	10000	7.98	14,400	24	14,100	24	13,400	23	12,800	23	11,300	20	9,600	18.5	3,880	7.9

Double Inlet # 45" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
198	1400	0.157	1,580	0.062												
226	1600	0.205	2,320	0.110												
255	1800	0.259	2,960	0.168	1,470	0.105										
283	2000	0.320	3,520	0.24	2,320	0.17										
311	2200	0.387	4,040	0.33	3,080	0.27	1,780	0.19								
340	2400	0.460	4,520	0.44	3,720	0.38	2,640	0.31								
368	2600	0.540	4,980	0.57	4,320	0.51	3,400	0.43	2,320	0.37						
396	2800	0.626	5,440	0.73	4,920	0.65	4,100	0.58	3,160	0.49						
425	3000	0.718	5,880	0.91	5,440	0.83	4,760	0.75	3,920	0.66	3,000	0.56				
452	3200	0.816	6,300	1.10	5,940	1.05	5,360	0.94	4,640	0.85	3,800	0.76	2,880	0.62		
481	3400	0.922	6,740	1.30	6,420	1.25	5,940	1.15	5,320	1.1	4,560	0.97	3,660	0.84	2,860	0.72
510	3600	1.03	7,160	1.65	6,840	1.5	6,440	1.4	5,900	1.3	5,260	1.20	4,460	1.1	3,740	0.99
537	3800	1.15	7,600	1.9	7,340	1.8	6,980	1.7	6,460	1.6	5,900	1.50	5,220	1.4	4,540	1.25
566	4000	1.28	8,020	2.2			7,180	2.1	7,040	1.9	6,540	1.85	5,960	1.7	5,320	1.60
595	4200	1.41	8,460	2.6			7,960	2.4	7,580	2.3	7,160	2.2	6,600	2.1	6,040	1.95
622	4400	1.54	8,900	3.0			8,400	2.7	8,100	2.6	7,740	2.5	7,200	2.4	6,660	2.3
651	4600	1.69	9,300	3.4			8,880	3.2	8,620	3.1	8,300	3.0	7,800	2.8	7,360	2.7
680	4800	1.81	9,700	3.8			9,300	3.6	9,080	3.5	8,740	3.4	8,360	3.3	7,940	3.2
707	5000	2.00	10,100	4.4					9,520	4.1	9,240	4.0	8,920	3.8	8,500	3.6
743	5250	2.20	10,700	5.1					10,100	4.7	9,860	4.6	9,580	4.5	9,220	4.3
779	5500	2.42	11,200	5.9					10,700	5.5	10,500	5.4	10,200	5.3	9,880	5.1
814	5750	2.54	11,700	6.4							11,000	6.0	10,700	5.8	10,400	5.6
850	6000	2.87	12,200	7.6							11,500	7.1	11,400	7.0	11,200	6.9
885	6250	3.12	12,700	8.6									12,000	8.0	11,600	7.8
920	6500	3.38	13,300	9.7									12,500	9.2	12,300	8.9
955	6750	3.63	13,800	11											12,900	10
990	7000	3.91	14,200	12											13,500	11
1060	7500	4.50	15,300	15												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
510	3600	1.03	2,920	0.83												
537	3800	1.15	3,800	1.1												
566	4000	1.28	4,640	1.5	3,180	1.25										
595	4200	1.41	5,380	1.8	4,090	1.50										
622	4400	1.54	6,100	2.2	4,840	1.85	3,520	1.50								
651	4600	1.69	6,840	2.5	5,640	2.3	4,140	1.95								
680	4800	1.81	7,440	3.1	6,420	2.7	5,280	2.4	4,020	2.0						
707	5000	2.00	8,100	3.5	7,120	3.2	6,060	3.0	4,920	2.5						
743	5250	2.20	8,800	4.2	7,980	3.9	7,020	3.6	5,940	3.2	4,840	2.8				
779	5500	2.42	9,520	4.9	8,780	4.7	7,880	4.4	6,900	4.0	5,920	3.6	4,880	3.20		
814	5750	2.54	10,100	5.4	9,400	5.2	8,700	5.0	7,860	4.7	6,920	4.4	5,560	3.8		
850	6000	2.87	10,900	6.6	10,200	6.2	9,500	6.0	8,700	5.7	7,840	5.3	6,940	4.9	5,960	4.4
885	6250	3.12	11,500	7.8	11,000	7.3	10,200	7.0	9,540	6.6	8,820	6.2	7,920	5.9	7,000	5.5
920	6500	3.38	12,100	8.8	11,600	8.3	11,000	8.0	10,400	7.7	9,660	7.2	8,840	6.9	8,020	6.5
955	6750	3.63	12,700	9.9	12,300	9.5	11,700	9.1	11,100	8.6	10,400	8.4	9,700	8.0	8,980	7.6
990	7000	3.91	13,300	11	12,900	10.5	12,300	10.5	11,800	9.9	11,200	9.6	10,600	9.2	9,800	8.7
1060	7500	4.50	14,400	14	14,100	14	13,700	13	13,200	12.5	13,800	12	12,100	12.0	11,500	11.5
1131	8000	5.11			15,300	17	15,000	16	14,600	16.0	14,100	15	13,600	15.0	13,100	15
1201	8500	5.76			16,400	20	16,140	20	15,700	19.5	15,400	19	15,000	18.5	14,500	18
1273	9000	6.46			17,600	24	17,300	24	17,000	23	16,700	23	16,300	22	15,900	22
1343	9500	7.20					18,500	28	18,100	28	17,800	27	17,600	27	17,300	26
1414	10000	7.98					19,600	34	19,300	33	19,100	33	18,800	32	18,400	32

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
885	6250	3.12	6,100	5.0												
920	6500	3.38	7,140	6.0	6,040	5.5										
955	6700	3.63	8,080	7.1	7,280	6.6										
990	7000	3.91	9,060	8.4	8,340	8.0	6,660	6.9								
1060	7500	4.50	10,900	11.0	10,200	10.5	8,700	9.6	7,200	8.4						
1131	8000	5.11	12,500	14.0	11,900	14	10,600	12.5	9,240	11.5	6,320	9.1				
1201	8500	5.76	14,100	17.5	13,500	17	12,300	16.5	11,100	15	8,480	12.5				
1273	9000	6.46	15,500	21	15,000	21	14,000	20	12,900	19	10,500	16.5	8,000	14.0		
1343	9500	7.20	16,800	26	16,400	25	15,600	24	14,500	23	12,400	21	10,100	18.5	7,640	15
1414	10000	7.98	18,200	31	17,800	31	17,000	30	16,100	28	14,200	26	12,100	23	9,800	20

Double Inlet

50" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
178	1400	0.157	1,960	0.076												
204	1600	0.205	2,880	1.135												
229	1800	0.259	3,660	0.21	1,810	0.13										
255	2000	0.320	4,360	0.29	2,880	0.21										
280	2200	0.387	5,000	0.41	3,800	0.34	2,200	0.23								
306	2400	0.460	5,600	0.55	4,600	0.47	3,260	0.38								
331	2600	0.510	6,160	0.70	5,340	0.63	4,200	0.53	2,880	0.46						
356	2800	0.626	6,710	0.90	6,080	0.81	5,080	0.72	3,920	0.61						
382	3000	0.718	7,280	1.10	6,740	1.05	5,880	0.93	4,860	0.82	3,700	0.69				
407	3200	0.816	7,800	1.35	7,360	1.30	6,620	1.15	5,710	1.05	4,700	0.94	3,560	0.77		
433	3400	0.922	8,340	1.65	7,940	1.55	7,340	1.45	6,560	1.35	5,620	1.2	4,520	1.05	3,540	0.80
458	3600	1.03	8,880	2.0	8,460	1.9	7,980	1.75	7,300	1.65	6,500	1.5	5,520	1.4	4,640	1.20
481	3800	1.15	9,400	2.3	9,080	2.2	8,640	2.1	8,000	1.95	7,300	1.9	6,460	1.7	5,600	1.55
510	4000	1.28	9,920	2.7			9,260	2.5	8,700	2.3	8,100	2.3	7,360	2.1	6,600	1.95
535	4200	1.41	10,500	3.2			9,840	3.0	9,380	2.8	8,860	2.7	8,180	2.5	7,180	2.4
560	4400	1.54	11,000	3.7			10,400	3.4	10,000	3.3	9,580	3.1	8,900	3.0	8,210	2.9
585	4600	1.69	11,500	4.2			11,000	4.0	10,700	3.8	10,300	3.7	9,640	3.5	9,100	3.4
611	4800	1.84	12,000	4.8			11,500	4.5	11,200	4.5	10,800	4.2	10,300	4.0	9,820	3.9
636	5000	2.00	12,500	5.4					11,800	5.0	11,400	4.9	11,000	4.7	10,500	4.5
669	5250	2.20	13,200	6.3					13,500	5.8	12,200	5.7	11,800	5.6	11,400	5.3
700	5500	2.42	13,800	7.3					13,200	6.8	13,100	6.8	12,600	6.5	12,200	6.3
732	5750	2.54	14,400	7.9							13,500	7.4	13,300	7.2	12,900	7.0
765	6000	2.87	15,100	9.5							14,200	8.7	14,100	8.5	13,800	8.5
795	6250	3.12	15,700	10.5									14,800	9.9	14,400	9.6
823	6500	3.38	16,400	12.0									15,500	11.5	15,300	11.0
860	6750	3.63	17,000	13.5											16,000	12.5
891	7000	3.91	17,600	15											16,700	14
955	7500	4.50	18,900	18												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
458	3600	1.03	3,620	1.05												
484	3800	1.15	4,700	1.4												
510	4000	1.28	5,740	1.8	3,940	1.55										
535	4200	1.41	6,660	2.2	5,020	1.8										
560	4400	1.54	7,510	2.7	5,980	2.3	4,360	1.8								
585	4600	1.69	8,460	3.1	6,980	2.9	5,400	2.4								
611	4800	1.84	9,200	3.8	7,940	3.4	6,520	3.0	4,980	2.5						
636	5000	2.00	10,000	4.4	8,820	4.0	7,500	3.7	6,080	3.1						
669	5250	2.20	10,900	5.1	9,860	4.8	8,680	4.4	7,340	4.0	6,000	3.5				
700	5500	2.42	11,800	6.1	10,900	5.8	9,740	5.4	8,520	5.0	7,320	4.4	6,040	3.9		
732	5750	2.54	12,480	6.8	11,600	6.5	10,700	6.1	9,740	5.8	8,580	5.4	6,880	4.7		
765	6000	2.87	13,400	8.2	12,600	7.7	11,700	7.4	10,800	7.0	9,700	6.5	8,600	6.1	7,380	5.5
795	6250	3.12	14,300	9.6	13,500	9.0	12,700	8.6	11,800	8.2	10,900	7.7	9,800	7.3	8,080	6.8
823	6500	3.38	15,000	11.0	14,300	10.5	13,600	9.9	12,800	9.5	11,900	8.9	10,900	8.6	9,920	8.1
860	6750	3.63	15,300	12.0	15,200	12	14,500	11	13,700	11.0	12,900	10.5	12,000	9.9	11,100	9.4
891	7000	3.91	16,400	14.0	15,900	13	15,300	13	14,000	12.0	13,800	11	13,100	11.5	12,100	11.0
955	7500	4.50	17,900	17.5	17,600	17	17,000	16	16,300	15.5	15,800	15	15,000	15.0	14,200	14.5
1019	8000	5.11			18,900	21	18,500	20	18,000	19.5	17,500	19	16,800	18.5	16,200	18
1081	8500	5.76			20,400	25	20,000	25	19,400	24	19,000	23	18,500	23	18,000	22
1147	9000	6.46			21,800	30	21,400	29	21,000	29	20,600	28	20,200	28	19,700	27
1210	9500	7.20					22,800	35	22,400	35	22,000	34	21,800	33	21,400	33
1273	10000	7.98					24,200	42	23,800	40	23,600	40	23,200	39	22,800	39

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
795	6250	3.12	7,540	6.1												
823	6500	3.38	8,840	7.5	7,720	6.8										
860	6750	3.63	10,000	8.8	9,000	8.2										
891	7000	3.91	11,200	10.5	10,300	10	8,220	8.5								
955	7500	4.50	13,500	11.0	12,600	13	10,800	12.0	8,900	10.5						
1019	8000	5.11	15,500	17.5	14,700	17	13,200	15.5	11,400	14.5	7,820	11.0				
1081	8500	5.76	17,400	22	16,700	21	15,300	20	13,700	19	10,500	15.5				
1147	9000	6.46	19,200	27	18,500	26	17,300	25	15,900	23	13,000	20	9,900	17		
1210	9500	7.20	20,800	32	20,400	31	19,300	30	18,000	29	15,400	26	12,500	23	9,410	19
1273	10000	7.98	22,600	38	22,000	38	21,000	37	19,900	35	17,600	32	15,000	29	12,100	25

Double Inlet

55" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1/8" Water .0722 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .506 ozs. per sq. inch	
162	1400	0.157	2,360	0.091												
185	1600	0.205	3,460	0.165												
208	1800	0.259	4,400	0.25	2,180	0.155										
232	2000	0.320	5,260	0.35	3,460	0.25										
255	2200	0.387	6,040	0.50	4,600	0.41	2,660	0.28								
278	2400	0.460	6,760	0.66	5,560	0.57	3,940	0.46								
301	2600	0.540	7,440	0.85	6,460	0.76	5,080	0.65	3,460	0.55						
324	2800	0.626	8,120	1.10	7,340	0.98	6,120	0.87	4,720	0.73						
347	3000	0.718	8,780	1.35	8,120	1.25	7,100	1.10	5,860	0.99	4,480	0.83				
371	3200	0.816	9,400	1.65	8,880	1.55	7,980	1.40	6,920	1.30	5,680	1.15	4,300	0.93		
394	3400	0.922	10,100	1.95	9,600	1.9	8,860	1.75	7,920	1.65	6,800	1.45	5,460	1.25	4,260	1.1
416	3600	1.03	10,700	2.4	10,200	2.3	9,620	2.1	8,800	1.95	7,840	1.8	6,660	1.65	5,600	1.5
440	3800	1.15	11,400	2.8	11,000	2.7	10,400	2.5	9,640	2.4	8,800	2.3	7,800	2.0	6,780	1.9
463	4000	1.28	12,000	3.3			11,200	3.1	10,500	2.8	9,760	2.8	8,900	2.5	7,960	2.1
486	4200	1.41	12,600	3.9			11,900	3.6	11,300	3.4	10,700	3.2	9,860	3.1	9,000	2.9
510	4400	1.54	13,300	4.4			12,500	4.1	12,100	3.9	11,500	3.8	10,800	3.6	9,940	3.5
532	4600	1.69	13,900	5.0			13,200	4.8	12,900	4.6	12,400	4.5	11,600	4.2	11,000	4.1
555	4800	1.81	14,500	5.7			13,900	5.5	13,500	5.3	13,000	5.1	12,500	4.9	11,800	4.7
579	5000	2.00	15,100	6.5					14,200	6.1	13,800	5.9	13,300	5.7	12,700	5.4
607	5250	2.20	15,900	7.6					15,100	7.1	14,700	6.9	14,300	6.7	13,740	6.4
636	5500	2.42	16,700	8.8					15,900	8.3	15,600	8.0	15,200	7.9	14,700	7.6
665	5750	2.54	17,400	9.6							16,340	8.9	16,000	8.7	15,600	8.4
695	6000	2.87	18,300	11.5							17,400	10.5	17,000	10.5	16,700	10.0
723	6250	3.12	19,000	13.0									18,000	12.0	17,400	11.5
753	6500	3.38	19,800	14.5									18,700	13.5	18,400	13.0
781	6750	3.63	20,600	16											19,300	15.0
810	7000	3.91	21,200	18											20,200	16.5
869	7500	4.50	22,800	22												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
416	3600	1.03	4,360	1.25												
440	3800	1.15	5,660	1.65												
463	4000	1.28	6,920	2.2	4,760	1.9										
486	4200	1.41	8,020	2.7	6,060	2.2										
510	4400	1.54	9,100	3.2	7,220	2.8	5,260	2.2								
532	4600	1.69	10,200	3.8	8,420	3.5	6,000	2.9								
555	4800	1.84	11,100	4.6	9,580	4.1	7,880	3.8	6,020	3.0						
579	5000	2.00	12,100	5.3	10,600	4.8	9,060	4.4	7,340	3.8						
607	5250	2.20	13,100	6.2	11,900	5.8	10,500	5.4	8,660	4.8	7,240	4.2				
636	5500	2.42	14,200	7.3	13,100	7.0	11,800	6.5	10,300	6.0	8,840	5.4	7,280	4.8		
665	5750	2.54	15,000	8.2	13,000	7.8	13,000	7.4	11,800	7.0	10,300	6.5	8,300	5.7		
695	6000	2.87	16,200	9.9	15,300	9.3	14,200	9.0	13,000	8.5	11,700	7.9	10,400	7.3	8,900	6.6
723	6250	3.12	17,000	11.5	16,300	11	15,300	10.5	14,300	9.9	13,200	9.3	11,800	8.8	10,500	8.2
753	6500	3.38	18,100	13.0	17,300	12	16,400	12.0	15,500	11.5	14,400	11.0	13,200	10.5	12,000	9.8
781	6750	3.63	19,000	15.0	18,300	14	17,500	13.5	16,500	13	15,600	12.5	14,500	12	13,400	11.5
810	7000	3.91	19,800	16.5	19,200	16	18,400	15.5	17,600	15	16,700	14.5	15,700	14	14,600	13.0
869	7500	4.50	21,600	21	21,000	20	20,400	19.5	19,700	19	19,000	18	18,100	18	17,200	17.5
925	8000	5.11			22,800	25	22,400	24	21,800	24	21,000	23	20,200	22	19,500	22
984	8500	5.76			24,600	30	24,200	30	23,100	29	23,000	28	22,400	27	21,800	27
1040	9000	6.46			26,200	36	25,800	35	25,400	35	24,800	34	24,400	34	23,800	32
1100	9500	7.20					27,600	42	27,000	42	26,600	41	26,200	40	25,800	39
1158	10000	7.98					29,200	50	28,800	49	28,600	49	28,000	48	27,600	47

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
723	6250	3.12	8,700	7.1												
753	6500	3.38	10,200	8.6	9,320	8.2										
781	6700	3.63	11,500	10	10,900	9.9										
810	7000	3.91	12,900	12	12,500	12	9,940	10.0								
869	7500	4.50	15,500	16	15,200	16	13,000	11.5	10,800	12.5						
925	8000	5.11	17,800	21	19,800	20	15,900	19	13,800	17.5	9,440	14.5				
984	8500	5.76	21,000	26	20,200	25	18,400	24	16,500	23	12,600	19				
1040	9000	6.46	23,200	32	22,400	31	21,000	30	19,200	28	15,700	24	11,900	21		
1100	9500	7.20	25,200	39	24,600	38	23,400	36	21,800	35	18,600	32	15,100	28	11,400	23
1158	10000	7.98	27,200	46	26,600	46	25,400	44	24,000	42	21,200	39	18,400	35	14,600	30

Double Inlet

60" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
148	1400	0.157	3,000	0.115												
170	1600	0.205	4,100	0.21												
191	1800	0.259	5,600	0.32	2,780	0.20										
212	2000	0.320	6,680	0.45	4,400	0.32										
233	2200	0.387	7,680	0.63	5,840	0.52	3,380	0.35								
251	2400	0.460	8,580	0.81	7,060	0.72	5,000	0.60								
276	2600	0.540	9,460	1.1	8,200	0.96	6,140	0.82	4,100	0.70						
297	2800	0.626	10,300	1.4	9,320	1.25	7,780	1.1	6,000	0.93						
318	3000	0.718	11,200	1.7	10,300	1.6	9,020	1.4	7,410	1.25	5,680	1.05				
339	3200	0.816	12,000	2.1	11,300	2.0	10,100	1.8	8,800	1.6	7,200	1.45	5,460	1.2		
360	3400	0.922	12,800	2.5	12,200	2.4	11,300	2.2	10,100	2.1	8,620	1.85	6,940	1.6	5,420	1.35
382	3600	1.03	13,600	3.1	13,000	2.9	12,200	2.7	11,200	2.5	9,980	2.3	8,460	2.1	7,100	1.9
403	3800	1.15	14,400	3.6	13,900	3.4	13,300	3.2	12,300	3.0	11,200	2.9	9,900	2.6	8,600	2.4
425	4000	1.28	15,200	4.2			14,200	3.9	13,400	3.6	12,100	3.5	11,300	3.2	10,100	3.0
445	4200	1.41	16,000	4.9			15,100	4.6	14,400	4.3	13,600	4.1	12,500	3.9	11,500	3.7
466	4400	1.54	16,900	5.8			15,900	5.2	15,300	5.0	14,700	4.8	13,700	4.6	12,600	4.4
488	4600	1.69	17,600	6.4			16,800	6.1	16,400	5.9	15,700	5.7	14,800	5.4	14,000	5.2
509	4800	1.84	18,100	7.3			17,600	6.9	17,200	6.7	16,600	6.5	15,900	6.2	15,100	6.0
530	5000	2.00	19,200	8.3					18,100	7.7	17,500	7.5	16,900	7.2	16,100	6.9
556	5250	2.20	20,200	9.6					19,200	9.0	18,700	8.7	18,200	8.5	17,500	8.2
584	5500	2.42	21,200	11.0					20,200	10.5	19,800	10.0	19,300	10.0	18,700	9.7
610	5750	2.54	22,200	12.0							20,800	11.0	20,400	11.0	19,800	10.5
636	6000	2.87	23,200	14.5							21,800	13.5	21,600	13.0	21,200	13
662	6250	3.12	24,200	16.5									22,600	15.0	22,000	15
690	6500	3.38	25,200	18.5									23,800	17.5	23,400	17
715	6750	3.63	26,200	21											24,400	19
742	7000	3.91	27,000	23											25,600	21
795	7500	4.50	29,000	28												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
382	3600	1.03	5,510	1.6												
403	3800	1.15	7,200	2.1												
425	4000	1.28	8,800	2.8	6,040	2.4										
445	4200	1.41	10,200	3.4	7,700	2.8										
466	4400	1.54	11,600	4.1	9,180	3.5	6,680	2.8								
488	4600	1.69	13,000	4.8	10,700	4.4	8,380	3.7								
509	4800	1.84	14,100	5.6	12,200	5.2	10,000	4.6	7,640	3.8						
530	5000	2.00	15,300	6.7	13,500	6.1	11,500	5.6	9,320	4.8						
556	5250	2.20	16,700	7.9	15,100	7.4	13,300	6.8	11,300	6.1	9,200	5.3				
584	5500	2.42	18,000	9.3	16,700	8.9	14,900	8.3	13,100	7.6	11,200	6.8	9,240	6.0		
610	5750	2.54	19,100	10.5	17,800	9.9	16,500	9.5	14,900	8.9	13,100	8.3	10,500	7.3		
636	6000	2.87	20,600	12.5	19,400	12	18,000	11.5	16,500	11.0	14,900	10.0	13,200	9.3	11,300	8.4
662	6250	3.12	21,800	15.0	20,800	14	19,400	13.0	18,100	12.5	16,800	12.0	15,000	11.0	13,300	10.5
690	6500	3.38	23,000	16.5	22,000	16	20,800	15.0	19,700	14.5	18,300	13.5	16,800	13.0	15,200	12.5
715	6750	3.63	24,200	19	23,200	18	22,200	17.0	21,000	16.5	19,800	16	18,400	15.0	17,000	14.5
742	7000	3.91	25,200	21	24,400	20	23,400	19.5	22,400	19	21,200	18	20,000	17.5	18,600	16.5
795	7500	4.50	27,400	27	26,800	26	26,000	25	25,000	24	24,200	23	23,000	23	21,800	22
848	8000	5.11			29,000	32	28,400	31	27,600	30	26,800	29	25,800	28	24,800	28
900	8500	5.76			31,200	38	30,600	38	29,800	37	29,200	36	28,400	35	27,600	34
954	9000	6.46			33,200	46	32,800	45	32,200	44	31,600	48	31,000	43	30,200	41
1010	9500	7.20					35,000	54	34,400	54	33,800	52	33,200	52	32,800	50
1060	10000	7.98					37,200	64	36,600	62	36,200	62	35,600	60	35,000	60

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
662	6250	3.12	11,500	9.4												
690	6500	3.38	13,500	11.5	11,800	10.5										
715	6750	3.63	15,300	13.5	13,800	12.5										
742	7000	3.91	17,200	16	15,800	15	12,600	13								
795	7500	4.50	20,600	21	19,300	20	16,500	18	13,700	16						
848	8000	5.11	23,800	27	22,600	26	20,200	24	17,500	22	12,000	17				
900	8500	5.76	26,800	33	25,600	32	23,400	31	21,000	29	16,100	24				
954	9000	6.46	29,400	41	28,400	40	26,600	38	24,400	36	20,000	31	15,200	26		
1010	9500	7.20	32,000	49	31,200	48	29,600	46	27,600	44	23,000	40	19,200	35	14,500	29
1060	10000	7.98	34,600	58	33,800	58	32,200	56	30,600	54	27,000	49	23,000	44	18,600	38

Double Inlet

70" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
127	1400	0.157	3,840	0.15												
145	1600	0.205	5,640	0.26												
164	1800	0.259	7,200	0.40	3,560	0.25										
182	2000	0.320	8,580	0.58	5,640	0.42										
200	2200	0.387	9,800	0.81	7,480	0.67	4,340	0.46								
218	2400	0.460	11,100	1.1	9,060	0.92	6,420	0.71								
236	2600	0.540	12,100	1.4	10,500	1.2	8,280	1.05	5,640	0.9						
254	2800	0.626	13,200	1.8	12,000	1.6	10,000	1.4	7,680	1.2						
272	3000	0.718	14,300	2.2	13,300	2.0	11,600	1.8	9,520	1.6	7,300	1.35				
291	3200	0.816	15,300	2.7	14,500	2.5	13,000	2.3	11,300	2.1	9,240	1.85	7,000	1.5		
309	3400	0.922	16,400	3.3	15,600	3.1	14,500	2.8	12,900	2.6	11,100	2.4	8,900	2.0	6,960	1.75
327	3600	1.03	17,560	3.9	16,600	3.7	15,700	3.5	14,400	3.2	12,800	3.0	10,900	2.7	9,120	2.4
346	3800	1.15	18,500	4.6	17,900	4.4	17,000	4.2	15,700	3.9	14,400	3.7	12,700	3.4	11,000	3.1
364	4000	1.28	19,600	5.4			18,200	5.0	17,200	4.7	15,900	4.4	14,500	4.2	13,000	3.9
382	4200	1.41	20,600	6.3			19,400	5.8	18,500	5.6	17,100	5.3	16,100	5.0	14,700	4.7
400	4400	1.54	21,600	7.2			20,400	6.7	19,700	6.5	18,800	6.2	17,600	5.9	16,200	5.6
418	4600	1.69	22,600	8.2			21,600	7.8	21,000	7.7	20,200	7.3	19,000	6.9	17,900	6.6
436	4800	1.84	23,600	9.4			22,600	8.9	22,000	8.6	21,200	8.4	20,400	8.0	19,300	7.7
455	5000	2.00	24,600	10.5					23,200	10.0	22,600	9.6	21,800	9.2	20,800	8.9
477	5250	2.20	26,000	12.5					24,600	11.5	24,000	11.0	23,400	11.0	22,400	10.5
500	5500	2.42	27,200	14.0					26,000	13.5	25,400	13.0	24,800	13.0	24,000	12.5
523	5750	2.54	28,400	15.5							26,600	14.5	26,200	14.0	25,400	14.0
545	6000	2.87	29,800	18.5							28,000	17	27,800	17.0	27,200	16.5
569	6250	3.12	31,000	21									29,200	19.5	28,400	19
590	6500	3.38	32,200	24									30,600	22	30,000	22
614	6750	3.63	33,600	27											31,400	24
636	7000	3.91	34,800	29											32,800	27
682	7500	4.50	37,200	36												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
327	3600	1.03	7,120	2.0												
346	3800	1.15	9,220	2.7												
364	4000	1.28	11,300	3.5	7,700	3.0										
382	4200	1.41	13,100	4.4	9,880	3.6										
400	4400	1.54	14,800	5.3	11,800	4.5	8,580	3.7								
418	4600	1.69	16,600	6.2	13,700	5.6	10,800	4.7								
436	4800	1.84	18,100	7.4	15,600	6.7	12,900	5.9	9,800	4.8						
455	5000	2.00	19,700	8.6	17,400	7.9	14,800	7.1	12,000	6.2						
477	5250	2.20	21,400	10.0	19,400	9.5	17,100	8.8	14,400	7.9	11,800	6.8				
500	5500	2.42	23,200	12.0	21,400	11.5	19,200	10.5	16,800	9.7	14,400	8.8	11,900	7.8		
523	5750	2.54	24,600	13.5	22,800	13	21,200	12.0	19,200	11.5	16,900	10.5	13,500	9.3		
545	6000	2.87	26,400	16	25,000	15	23,200	14.5	21,200	14	19,200	13.0	18,900	12.0	14,500	11.0
569	6250	3.12	28,000	19	26,600	18	25,000	17.0	23,200	16	21,600	15.0	19,300	14.5	17,100	13.0
590	6500	3.38	29,600	21	28,400	20	26,600	19.5	25,200	19	23,600	17.5	21,600	17.0	19,500	16.0
614	6750	3.63	31,000	24	29,800	23	28,400	22	27,000	21	25,400	21	23,600	19.5	21,800	18.5
636	7000	3.91	32,400	27	31,400	26	30,200	25	28,800	24	27,400	23	25,800	22	23,800	21
682	7500	4.50	35,200	35	34,400	33	33,200	32	32,200	31	31,000	30	29,600	29	28,000	28
726	8000	5.11			37,200	41	36,400	40	35,400	39	34,400	37	33,000	36	31,800	35
773	8500	5.76			40,000	49	39,400	48	38,200	47	37,400	46	36,400	45	35,400	44
819	9000	6.46			42,800	60	42,000	58	41,400	58	40,600	56	39,800	54	38,600	54
864	9500	7.20					44,800	70	44,200	68	43,400	66	42,800	66	42,000	64
910	10000	7.98					47,800	82	47,000	80	46,400	78	45,600	78	45,000	76

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
569	6250	3.12	14,800	12.0												
590	6500	3.38	17,100	14.5	15,200	13										
614	6750	3.63	19,700	17	17,700	16										
636	7000	3.91	22,000	20	20,400	19	16,200	16.5								
682	7500	4.50	26,600	27	24,800	26	21,200	23	17,500	21						
726	8000	5.11	30,600	35	29,000	33	26,000	31	22,600	28	15,400	22				
773	8500	5.76	34,400	43	33,000	41	30,200	39	27,000	37	20,600	31				
819	9000	6.46	37,800	52	36,400	50	34,200	49	31,400	46	25,600	40	19,500	34		
864	9500	7.20	41,000	64	40,000	62	38,000	60	35,400	56	30,200	52	24,600	45	18,600	37
910	10000	7.98	44,200	76	43,400	74	41,400	70	39,400	68	34,800	64	29,400	56	23,800	49

Double Inlet

80" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
111	1400	0.157	5,200	0.20												
127	1600	0.205	7,640	0.36												
143	1800	0.259	9,740	0.55	4,840	0.35										
159	2000	0.320	11,000	0.79	7,640	0.56										
175	2200	0.387	13,400	1.10	10,100	0.99	5,860	0.63								
191	2400	0.460	14,900	1.45	12,300	1.25	8,700	1.0								
206	2600	0.540	16,400	1.9	14,300	1.65	11,200	1.4	7,640	1.2						
222	2800	0.626	17,900	2.4	16,200	2.2	13,500	1.9	10,400	1.6						
238	3000	0.718	19,400	3.0	17,900	2.7	15,700	2.5	12,900	2.2	9,880	1.85				
255	3200	0.816	20,800	3.7	19,600	3.4	17,600	3.1	15,300	2.8	12,500	2.5	9,500	2.1		
271	3400	0.922	22,200	4.4	21,200	4.2	19,500	3.9	17,500	3.6	15,000	3.2	12,100	2.8	9,420	2.4
286	3600	1.03	23,600	5.3	22,600	5	21,200	4.7	19,500	4.4	17,300	4.1	14,700	3.6	12,300	3.3
302	3800	1.15	25,000	6.3	24,200	6	23,000	5.6	21,400	5.2	19,400	5.0	17,200	4.6	14,900	4.2
318	4000	1.28	26,400	7.3			24,600	6.7	23,200	6.3	21,600	6.0	19,700	5.6	17,500	5.2
334	4200	1.41	28,000	8.5			26,200	7.9	25,000	7.5	23,600	7.2	21,800	6.8	19,900	6.4
350	4400	1.54	29,400	9.7			27,600	9.1	26,600	8.8	25,400	8.4	23,800	8.0	22,000	7.6
366	4600	1.69	30,600	11.0			29,200	10.5	28,400	10.5	27,400	9.9	25,600	9.4	24,200	9.0
382	4800	1.84	32,000	13.0			30,600	12	30,000	11.5	28,800	11.5	27,600	11.0	26,200	10.5
398	5000	2.00	33,400	14.5					31,400	13.5	30,400	13	29,400	12.5	28,000	12.0
417	5250	2.20	35,000	17.0					33,400	15.5	32,400	15	31,600	15.0	30,400	14.0
437	5500	2.42	36,800	19.5					35,200	18	34,600	18	33,600	17.5	32,600	17.0
457	5750	2.54	38,400	21							36,000	19	35,400	19	34,400	18.5
477	6000	2.87	40,100	25							37,800	23	37,600	23	36,800	22
497	6250	3.12	41,800	28									39,400	26	38,400	26
516	6500	3.38	43,600	32									41,400	30	40,600	29
536	6750	3.63	45,400	36											42,600	33
556	7000	3.91	47,000	40											44,400	37
596	7500	4.50	50,400	50												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
286	3600	1.03	9,620	2.8												
302	3800	1.15	12,500	3.7												
318	4000	1.28	15,300	4.8	10,500	4.1										
334	4200	1.41	17,700	5.9	13,400	4.9										
350	4400	1.54	20,200	7.1	16,000	6.1	11,600	5.0								
366	4600	1.69	22,600	8.4	18,600	7.6	14,600	6.4								
382	4800	1.84	24,600	10.0	21,200	9.0	17,400	8.0	13,300	6.5						
398	5000	2.00	26,600	11.5	23,600	10.5	20,000	9.7	16,200	8.4						
417	5250	2.20	29,000	13.5	26,200	13.0	23,200	12.0	19,600	10.5	16,000	9.3				
437	5500	2.42	31,400	16	29,000	15.5	26,000	14.5	22,800	13.0	19,500	12.0	16,100	10.5		
457	5750	2.54	33,200	18	31,000	17	28,600	16.5	26,000	15.5	22,800	14.5	18,300	12.5		
477	6000	2.87	35,800	22	33,800	21	31,400	20	28,600	18.5	25,800	17.5	22,800	16.0	19,700	14.5
497	6250	3.12	38,000	26	36,000	24	33,800	23	31,400	22	29,200	21	26,000	19.5	23,200	18
516	6500	3.38	40,000	29	38,400	28	36,000	26	34,200	25	31,800	24	29,200	23	26,400	21
536	6750	3.63	42,000	33	40,400	31	38,600	30	36,600	29	34,400	28	32,000	26	29,600	25
556	7000	3.91	44,000	37	42,600	35	40,800	34	39,000	33	37,000	32	34,800	30	32,400	29
596	7500	4.50	47,600	46	46,600	45	45,000	43	43,600	42	42,000	41	40,000	39	38,000	38
636	8000	5.11			50,400	56	49,200	54	47,800	52	46,400	50	44,800	49	43,200	48
676	8500	5.76			54,200	66	53,200	66	51,800	64	50,800	62	49,400	60	47,800	60
716	9000	6.46			57,800	80	56,800	78	56,000	78	54,800	76	53,800	74	52,400	72
756	9500	7.20					60,800	94	59,800	92	58,800	90	57,800	88	56,800	88
796	10000	7.98					64,800	110	63,600	110	62,800	110	61,800	105	61,000	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
497	6250	3.12	20,200	16.5												
516	6500	3.38	23,600	20.0	20,600	18										
536	6750	3.63	26,600	23.0	24,000	22										
556	7000	3.91	30,000	27.2	27,600	26	22,000	22								
596	7500	5.50	35,800	37	33,600	35	28,600	32	23,800	28						
636	8000	5.11	41,200	47	39,400	45	35,000	42	30,400	38	20,800	30				
676	8500	5.76	46,400	58	44,600	56	40,800	54	36,600	50	28,000	42				
716	9000	6.46	51,200	70	49,400	68	46,200	66	42,600	62	34,800	54	26,400	46		
756	9500	7.20	55,600	86	51,200	84	51,400	80	48,000	76	41,000	70	33,400	60	25,200	50
796	10000	7.98	60,000	100	58,600	100	56,000	96	53,400	92	47,000	86	40,000	76	32,400	66

Double Inlet

90" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
99	1400	0.157	6,480	0.25												
113	1600	0.205	9,500	0.41												
128	1800	0.259	12,100	0.68	6,030	0.43										
142	2000	0.320	14,400	0.98	9,500	0.70										
156	2200	0.387	16,600	1.4	12,600	1.10	7,300	0.78								
170	2400	0.460	18,500	1.8	15,300	1.55	10,800	1.25								
184	2600	0.510	20,400	2.4	17,700	2.1	13,900	1.75	9,500	1.5						
198	2800	0.626	22,200	3.0	20,200	2.7	16,800	2.4	13,900	2.0						
212	3000	0.718	24,200	3.7	22,200	3.4	19,500	3.1	16,000	2.7	12,300	2.3				
226	3200	0.816	25,800	4.5	24,400	4.2	22,000	3.9	19,000	3.5	15,600	3.1	11,800	2.6		
240	3400	0.922	27,600	5.5	26,400	5.2	24,100	4.8	21,800	4.4	18,600	4.0	15,000	3.4	11,700	2.9
255	3600	1.03	29,400	6.6	28,000	6.2	26,400	5.8	24,200	5.4	21,600	5.1	18,300	4.5	15,300	4.0
269	3800	1.15	31,200	7.8	30,000	7.4	28,600	7.0	26,400	6.5	24,200	6.2	21,400	5.7	18,600	5.2
284	4000	1.28	32,800	9.1			30,600	8.1	28,800	7.8	26,800	7.5	24,400	7.0	21,800	6.5
297	4200	1.41	34,600	10.5			32,600	9.8	31,000	9.3	29,400	8.9	27,000	8.5	24,800	7.9
311	4400	1.54	36,400	12			34,400	11.5	33,300	11.0	31,600	10.5	29,600	9.9	27,200	9.4
325	4600	1.69	38,200	14			36,400	13	35,400	13.0	34,000	12	32,000	11.5	30,200	11.0
339	4800	1.84	39,800	16			38,200	15	37,200	14.5	35,800	14	34,200	13.5	32,600	13.0
354	5000	2.00	41,600	18					39,000	17.0	37,800	16	36,600	15.5	34,800	15.0
372	5250	2.20	43,600	21					41,400	19.5	40,100	19	39,200	18.5	37,800	17.5
390	5500	2.42	41,600	24					42,600	23	42,800	22	41,600	22	40,100	21
407	5750	2.54	47,800	26							44,800	24	44,000	24	42,800	23
425	6000	2.87	50,000	31							47,000	29	46,600	29	45,600	28
442	6250	3.12	52,000	35									49,000	33	47,600	32
460	6500	3.38	54,200	40									51,400	37	50,600	36
477	6750	3.63	56,400	45											53,000	41
495	7000	3.91	58,400	49											55,200	46
532	7500	4.50	62,800	62												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
255	3600	1.03	12,000	3.4												
269	3800	1.15	15,500	4.6												
284	4000	1.28	19,000	6.0	13,060	5.1										
297	4200	1.41	22,000	7.3	16,620	6.1										
311	4400	1.54	25,000	8.8	19,820	7.6	14,400	6.2								
325	4600	1.69	28,000	10.5	23,200	9.4	18,100	8								
339	4800	1.84	30,600	12.5	26,400	11	21,600	10	16,500	8.1						
354	5000	2.00	33,000	14.5	29,200	13	24,800	12	20,200	10.5						
372	5250	2.20	36,000	17	32,600	16	28,800	15	24,400	13.0	19,800	11.5				
390	5500	2.42	39,000	20	36,000	19	32,200	18	28,200	16.5	24,200	15	20,000	13.0		
407	5750	2.54	41,400	22	38,100	21	35,600	20	32,200	19	28,400	18	22,800	15.5		
425	6000	2.87	44,600	27	42,000	26	39,000	24	35,600	23	32,000	22	28,400	20	21,400	18
442	6250	3.12	47,200	32	44,800	30	42,000	29	39,200	27	36,200	26	32,400	24	28,000	22
460	6500	3.38	49,600	36	47,600	34	44,800	33	42,600	32	39,600	29	36,200	28	32,800	27
477	6750	3.63	52,200	40	50,400	39	47,800	37	45,400	36	42,800	35	39,600	33	36,800	31
495	7000	3.91	54,600	46	52,800	44	50,800	42	48,400	41	46,000	39	43,200	38	40,200	36
532	7500	4.50	59,200	58	57,800	56	56,000	54	54,200	52	52,000	50	49,600	49	47,200	47
566	8000	5.11			62,600	68	61,200	66	59,600	64	57,600	62	55,600	60	53,600	60
601	8500	5.76			67,400	82	66,200	82	64,200	80	63,000	78	61,200	76	59,400	74
636	9000	6.46			72,000	100	70,600	98	69,600	96	68,200	94	66,800	92	65,000	90
672	9500	7.20					75,600	115	74,200	115	73,200	110	71,800	110	70,600	110
708	10000	7.98					80,200	135	79,200	130	78,000	130	76,800	130	75,600	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
442	6250	3.12	25,000	20												
460	6500	3.38	29,200	25	25,600	23										
477	6750	3.63	33,200	29	29,800	27										
495	7000	3.91	37,200	31	34,200	33	27,200	28								
532	7500	4.50	44,600	46	41,800	44	35,600	39	29,400	35						
566	8000	5.11	51,400	58	48,800	56	43,600	52	37,800	48	26,000	37				
601	8500	5.76	57,800	72	55,100	70	50,800	66	45,600	62	34,800	52				
636	9000	6.46	63,600	88	61,400	86	57,400	82	52,800	78	43,200	68	32,800	58		
672	9500	7.20	69,000	110	67,200	105	63,800	100	59,600	94	50,800	86	41,400	76	31,200	62
708	10000	7.98	74,600	130	73,000	125	69,600	120	66,200	115	58,400	110	49,600	96	40,200	84

Double Inlet

100" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
89	1400	0.157	7,840	0.31												
102	1600	0.205	11,500	0.54												
114	1800	0.259	14,700	0.83	7,280	0.52										
127	2000	0.320	17,500	1.2	11,500	0.85										
140	2200	0.387	20,200	1.7	15,300	1.35	8,840	0.95								
153	2400	0.460	22,400	2.2	18,500	2.0	13,100	1.5								
165	2600	0.510	24,800	2.9	21,600	2.5	17,900	2.1	11,520	1.85						
178	2800	0.626	27,000	3.6	24,400	3.3	20,400	2.9	15,700	2.4						
191	3000	0.718	29,200	4.5	27,000	4.1	23,600	3.7	19,500	3.3	14,900	2.8				
201	3200	0.816	31,400	5.5	29,600	5.1	26,600	4.7	23,000	4.3	18,900	3.8	14,300	3.1		
217	3400	0.922	33,600	6.6	32,000	6.3	29,600	5.8	26,100	5.4	22,600	4.8	18,200	4.2	14,200	3.6
229	3600	1.03	35,600	8.1	34,000	7.5	32,000	7.0	29,400	6.6	26,200	6.1	22,200	5.5	18,600	4.9
242	3800	1.15	37,800	9.5	36,600	9.0	34,800	8.5	32,200	7.9	29,400	7.5	26,000	6.9	22,600	6.3
254	4000	1.28	39,800	11.0			37,200	10	35,000	9.5	32,600	9.0	29,600	8.5	26,100	7.9
268	4200	1.41	42,000	13.0			39,600	12	37,600	11.5	35,600	11.0	32,800	10.0	30,000	9.6
280	4400	1.54	44,200	14.5			41,800	14	40,200	13.0	38,400	12.5	35,800	12.0	33,000	11.5
293	4600	1.69	46,200	16.5			44,200	16	42,800	15.5	41,200	15.0	38,800	14.0	36,600	13.5
306	4800	1.84	48,200	19			46,200	18	45,000	17.5	43,400	17.0	41,600	16.5	39,400	15.5
318	5000	2.00	50,100	22					47,200	20	46,000	19.5	41,400	19	42,200	18
334	5250	2.20	52,800	25					50,200	21	48,800	23	47,600	22	45,600	21
350	5500	2.42	55,600	29					53,000	27	52,000	27	50,600	26	49,000	25
366	5750	2.54	58,000	32							51,400	30	53,200	29	51,800	28
382	6000	2.87	60,800	38							57,000	35	56,600	35	55,400	34
393	6250	3.12	63,200	43									59,400	40	57,800	39
414	6500	3.38	65,800	48									62,400	45	61,200	44
430	6750	3.63	68,100	54											64,000	50
446	7000	3.91	71,000	60											67,000	56
477	7500	4.50	76,000	71												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
229	3600	1.03	14,500	4.2												
242	3800	1.15	18,800	5.6												
254	4000	1.28	23,000	7.2	15,800	6.2										
268	4200	1.41	26,800	8.9	20,200	7.4										
280	4400	1.54	30,200	11.0	24,000	9.3	17,500	7.5								
293	4600	1.69	34,000	12.5	28,000	11.5	22,000	9.7								
306	4800	1.84	37,000	15.0	32,000	13.5	26,200	12.0	20,000	9.9						
318	5000	2.00	40,200	17.5	35,400	16.0	30,200	14.5	24,400	12.5						
334	5250	2.20	43,600	21	39,600	19.5	34,800	18	29,400	16	24,000	14				
350	5500	2.42	47,200	24	43,600	23	39,200	22	34,200	20	29,400	18	24,200	16		
366	5750	2.54	50,000	27	46,600	26	43,200	25	39,200	23	34,400	22	27,600	19		
382	6000	2.87	54,000	33	50,800	31	47,200	30	43,200	28	39,000	26	34,400	24	29,600	22
393	6250	3.12	57,200	39	54,400	36	51,000	35	47,400	33	43,800	31	39,200	29	34,800	27
414	6500	3.38	60,200	44	57,800	42	54,400	41	51,600	38	48,000	36	43,800	34	39,800	32
430	6750	3.63	63,200	49	61,000	48	58,000	45	55,200	44	51,800	42	48,200	40	44,600	38
446	7000	3.91	66,200	56	64,000	54	61,600	52	58,600	49	55,800	48	52,400	46	48,800	44
477	7500	4.50	71,800	70	70,200	68	68,000	66	65,600	62	63,200	62	60,200	60	57,400	58
510	8000	5.11			75,800	84	74,400	82	72,200	78	70,000	76	67,400	74	65,000	72
511	8500	5.76			81,600	100	80,200	98	78,000	96	76,400	94	74,400	92	72,000	90
574	9000	6.46			87,200	120	85,800	120	84,400	115	82,800	110	81,000	110	78,800	110
605	9500	7.20					91,600	140	90,000	140	88,600	135	87,000	130	85,800	130
637	10000	7.98					97,600	170	96,000	165	94,600	160	93,200	160	91,800	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
393	6250	3.12	30,400	25												
414	6500	3.38	35,400	30	31,000	27										
430	6750	3.63	40,200	35	36,200	33										
446	7000	3.91	45,200	42	41,600	40	33,000	34								
477	7500	4.50	54,200	56	50,600	52	43,200	48	35,800	42						
510	8000	5.11	62,200	70	59,200	68	52,800	64	46,000	58	31,400	45				
541	8500	5.76	70,000	88	67,200	84	61,000	80	55,200	74	42,000	62				
574	9000	6.46	77,000	110	74,400	105	69,600	100	64,000	94	52,400	82	39,800	70		
605	9500	7.20	83,600	130	81,600	125	77,400	120	72,400	115	61,600	105	50,200	92	38,000	76
637	10000	7.98	90,200	150	88,400	150	84,400	145	80,200	140	71,000	130	60,200	115	48,800	100

Double Inlet

110" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
81	1400	0.157	9,900	0.4												
93	1600	0.205	14,500	0.7												
104	1800	0.259	18,500	1.1	9,200	0.7										
116	2000	0.320	22,000	1.5	14,500	1.1										
128	2200	0.387	25,400	2.1	19,300	1.7	11,200	1.2								
139	2400	0.460	28,400	2.8	23,400	2.4	17,600	1.9								
150	2600	0.540	31,200	3.6	27,200	3.2	21,400	2.7	14,500	2.3						
162	2800	0.626	34,200	4.6	30,800	4.1	25,800	3.7	19,700	3.1						
174	3000	0.718	37,000	5.7	34,200	5.2	29,800	4.7	24,600	4.1	19,800	3.5				
185	3200	0.816	39,600	7.0	37,200	6.5	33,600	5.9	29,000	5.4	23,800	4.7	18,100	3.9		
197	3400	0.922	42,400	8.4	40,200	7.9	37,200	7.3	33,200	6.8	28,600	6.1	23,000	5.3	18,000	4.5
208	3600	1.03	45,000	10.0	42,800	9.5	40,400	8.9	37,000	8.3	33,000	7.1	28,000	6.9	21,600	6.2
220	3800	1.15	47,800	12.0	46,000	11.5	43,800	11.0	40,600	10.0	37,000	9.4	34,800	8.7	28,400	8.0
232	4000	1.28	50,400	14.0			47,000	13.0	44,200	12.0	41,000	11.5	37,400	11	33,400	10.0
243	4200	1.41	53,000	16.0			50,000	15.0	47,600	14.0	45,000	13.5	41,400	13	37,800	12.0
254	4400	1.54	55,800	18.5			52,800	16.5	50,800	16.5	48,400	16	45,200	15	41,800	14.5
266	4600	1.69	58,400	21			55,600	20	54,000	20	52,000	19	48,800	18	46,200	17
278	4800	1.84	60,800	24			58,400	23	56,800	22	54,800	21	52,400	21	49,800	20
290	5000	2.00	63,600	27					59,600	26	58,000	25	56,000	24	53,400	23
301	5250	2.20	66,800	32					63,400	30	61,600	29	60,000	28	57,600	27
318	5500	2.42	70,000	37					67,000	35	65,600	34	63,800	33	62,000	32
332	5750	2.54	73,200	40							68,600	37	66,800	36	65,400	35
348	6000	2.87	76,600	48							72,000	44	71,400	44	70,000	43
361	6250	3.12	79,600	51									74,800	50	72,800	49
376	6500	3.38	83,000	60									78,800	58	77,400	56
390	6750	3.63	86,200	68											80,800	62
405	7000	3.91	89,400	76											81,600	70
435	7500	4.5	96,000	94												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
208	3600	1.03	18,300	5.2												
220	3800	1.15	23,800	7.0												
232	4000	1.28	29,000	9.1	20,000	8										
243	4200	1.41	33,800	11.0	25,400	9										
254	4400	1.54	38,200	13.5	30,400	12	22,000	9								
266	4600	1.69	42,800	16	35,400	15	27,800	12								
278	4800	1.84	46,800	19	40,200	17	33,200	15	25,200	13						
290	5000	2.00	50,800	22	44,800	20	38,000	19	30,800	16						
304	5250	2.20	55,200	26	50,000	25	44,000	23	37,200	20	30,400	18				
318	5500	2.42	59,600	31	55,000	29	49,400	27	43,200	25	37,200	23	30,600	20		
332	5750	2.54	63,200	34	58,800	33	54,400	31	49,400	29	43,400	27	34,800	24		
348	6000	2.87	68,200	42	64,200	39	59,600	38	54,600	36	49,200	33	43,400	31	37,400	28
361	6250	3.12	72,400	48	68,600	46	64,400	44	59,800	41	55,400	39	49,600	37	44,000	35
376	6500	3.38	76,000	54	72,800	52	68,600	50	65,000	48	60,600	45	55,400	43	50,400	41
390	6750	3.63	79,800	62	77,000	60	73,200	58	69,600	56	65,400	52	60,800	50	56,400	48
405	7000	3.91	83,600	70	80,800	68	77,600	64	74,000	62	70,400	60	66,200	58	61,600	56
435	7500	4.50	90,600	88	88,600	84	85,800	82	82,800	80	79,600	78	76,000	76	72,400	72
464	8000	5.11			95,800	105	93,600	105	91,200	100	88,400	96	85,000	91	82,000	92
491	8500	5.76			103,000	130	101,000	125	98,400	120	96,600	120	94,000	115	91,000	110
520	9000	6.46			110,000	150	108,000	150	107,000	150	104,000	145	102,000	140	99,600	135
550	9500	7.20					116,000	180	114,000	175	112,000	170	110,000	170	108,000	165
578	10000	7.98					133,000	210	121,000	210	119,000	200	118,000	200	116,000	195

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
361	6250	3.12	38,200	31												
376	6500	3.38	44,800	38	39,200	35										
390	6750	3.63	50,800	44	45,600	42										
405	7000	3.91	56,800	52	52,400	50	41,800	43								
435	7500	4.50	68,200	70	64,000	66	54,600	60	45,200	54						
464	8000	5.11	78,600	88	74,800	86	66,800	80	58,000	72	39,800	56				
491	8500	5.76	88,200	110	84,800	110	77,600	100	69,800	94	53,200	80				
520	9000	6.46	97,200	135	94,000	130	88,000	125	81,000	120	66,000	105	50,200	88		
550	9500	7.20	116,000	165	103,000	160	97,800	150	91,200	145	78,000	130	63,400	115	47,800	96
578	10000	7.98	114,000	190	112,000	190	107,000	185	101,000	175	89,600	165	76,000	150	61,600	130

Double Inlet **Double Width**

120" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
74	1400	0.157	13,500	0.52												
85	1600	0.205	19,800	0.92												
95	1800	0.259	25,200	1.4	12,500	0.89										
100	2000	0.320	30,000	2.0	19,800	1.15										
117	2200	0.387	34,600	2.9	26,200	2.3	15,200	1.6								
127	2400	0.460	38,600	3.8	31,800	3.2	22,600	2.6								
138	2600	0.540	42,600	4.9	37,000	4.3	29,000	3.7	19,780	3.2						
149	2800	0.626	46,400	6.2	41,800	5.6	35,000	5.0	27,000	4.2						
159	3000	0.718	50,200	7.7	46,400	7.1	40,600	6.4	33,400	5.6	25,600	4.7				
170	3200	0.816	53,800	9.5	50,800	8.8	45,600	8.0	39,600	7.3	32,400	6.4	24,600	5.1		
180	3400	0.922	57,600	11.5	54,800	11.0	50,600	10.0	45,200	9.2	38,800	8.4	31,200	7.2	21,200	6.1
191	3600	1.03	61,200	14	58,400	13.0	55,000	12.0	50,400	11.0	44,800	10.5	38,000	9.4	32,000	8.4
202	3800	1.15	63,000	16	62,600	15.5	59,600	14.5	55,200	13.5	50,400	13.0	44,600	12	38,600	11.0
212	4000	1.28	68,400	19			64,000	17.5	60,000	16.5	55,800	15.5	50,800	15	45,400	13.5
223	4200	1.41	72,200	22			68,000	20	64,600	19.5	61,200	18.5	56,400	18	51,600	16.5
233	4400	1.54	75,800	25			71,600	24	69,000	23	66,000	22	61,600	21	56,800	19.5
244	4600	1.69	79,400	29			75,600	27	73,600	27	70,800	26	66,400	24	62,800	23
255	4800	1.81	82,600	33			79,400	31	77,400	30	74,600	29	71,200	28	67,600	27
266	5000	2.00	86,400	37					81,200	35	78,800	34	76,000	32	72,600	31
278	5250	2.20	91,800	43					86,200	40	84,000	39	81,600	38	78,400	37
292	5500	2.42	95,200	50					91,000	47	89,200	46	86,800	45	84,200	44
305	5750	2.54	99,400	54							93,400	50	91,600	50	89,000	48
318	6000	2.87	104,000	64							97,800	60	97,000	60	95,000	58
332	6250	3.12	108,000	71									102,000	68	99,200	66
345	6500	3.38	113,000	82									117,000	78	105,000	76
358	6750	3.63	117,000	92											110,000	86
372	7000	3.91	122,000	105											115,200	96
398	7500	4.50	132,000	130												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
191	3600	1.03	25,000	7.1												
202	3800	1.15	32,400	9.6												
212	4000	1.28	39,600	12.5	27,200	10.5										
223	4200	1.41	46,000	15.0	35,000	13										
233	4400	1.54	52,000	18.5	41,200	16	30,000	13.0								
244	4600	1.69	58,400	22	48,000	19	37,600	16.5								
255	4800	1.81	63,600	26	54,800	23	45,000	21	34,400	17						
266	5000	2.00	69,000	30	60,800	28	51,800	25	42,000	22						
278	5250	2.20	75,000	35	68,000	33	60,000	31	50,600	28	47,200	21				
292	5500	2.42	81,200	42	74,800	40	67,200	37	58,800	34	50,400	31	41,600	27		
305	5750	2.54	86,000	47	80,000	45	74,000	42	67,200	40	59,000	37	47,400	33		
318	6000	2.87	92,600	56	87,200	54	81,000	52	74,200	48	66,800	45	59,200	42	57,000	38
332	6250	3.12	98,400	66	93,200	62	87,600	60	81,400	56	75,200	54	67,600	50	59,800	46
345	6500	3.38	103,000	74	98,200	72	93,200	68	88,400	66	82,400	62	75,400	60	68,400	56
358	6750	3.63	109,000	84	105,000	80	99,800	78	94,600	74	89,000	72	82,800	68	76,600	66
372	7000	3.91	114,000	96	110,000	92	106,000	88	101,000	84	95,800	82	90,000	78	83,800	76
398	7500	4.50	123,000	120	120,000	115	117,000	110	113,000	110	108,000	105	103,000	105	98,400	98
425	8000	5.11			130,000	145	127,000	140	124,000	135	120,000	130	116,000	130	112,000	125
451	8500	5.76			140,000	170	138,000	170	134,000	165	131,000	160	138,000	155	124,000	150
478	9000	6.46			150,000	210	147,000	200	145,000	200	142,000	195	139,000	190	135,000	190
504	9500	7.20					157,000	240	155,000	240	152,000	230	150,000	230	147,000	230
530	10000	7.98					167,000	200	165,000	280	162,000	280	160,000	270	158,000	270

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
332	6250	3.12	52,000	42												
345	6500	3.38	67,000	52	53,200	47										
358	6750	3.63	69,000	60	62,200	56										
372	7000	3.91	77,400	72	71,200	68	56,800	58								
398	7500	4.50	93,000	91	87,000	90	74,200	82	61,400	72						
425	8000	5.11	107,000	120	102,000	115	90,800	110	78,800	100	51,000	78				
451	8500	5.76	120,000	150	115,000	145	106,000	135	94,800	130	72,200	110				
478	9000	6.46	132,000	185	128,000	180	119,000	170	110,000	160	89,800	140	68,200	120		
501	9500	7.20	144,000	220	140,000	220	133,000	210	124,000	195	106,000	180	86,200	155	65,000	130
530	10000	7.98	155,000	260	152,000	260	145,000	250	138,000	240	122,000	220	103,000	200	83,600	170

Double Inlet # 140" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
63	1400	0.157	17,500	0.68												
73	1600	0.205	25,800	1.20												
82	1800	0.259	32,800	1.85	16,300	1.15										
91	2000	0.320	39,000	1.7	25,800	1.9										
100	2200	0.387	45,000	3.7	34,200	3.0	19,700	2.1								
109	2400	0.460	50,200	4.9	41,100	4.2	29,800	3.4								
118	2600	0.540	55,400	6.4	48,000	5.6	37,800	4.8	25,800	4.1						
127	2800	0.626	60,400	8.1	54,600	7.3	45,600	6.5	35,000	5.4						
136	3000	0.718	65,100	10.0	60,400	9.2	52,800	8.3	43,400	7.3	33,200	6.2				
145	3200	0.816	70,000	12.5	66,000	11.5	59,400	10.5	51,100	9.4	42,200	8.4	32,000	7.0		
155	3400	0.922	75,000	15	71,200	14	65,800	13	59,000	12.0	50,400	11.0	40,600	9.3	31,800	8.0
164	3600	1.03	79,600	18	76,000	17	71,600	16	65,600	14.5	58,400	13.5	49,400	12.0	41,600	11.0
173	3800	1.15	84,400	21	81,600	20	77,600	19	71,600	17.5	65,400	16.5	58,000	15.5	50,400	14.0
182	4000	1.28	89,000	25			83,000	23	78,200	21	72,600	20	66,200	19	59,000	17.5
191	4200	1.41	94,000	29			88,400	27	84,000	25	79,600	24	73,200	23	67,000	22
200	4400	1.54	98,800	33			93,200	31	89,800	30	85,800	28	80,000	27	73,800	25
209	4600	1.69	103,000	37			98,400	36	94,600	35	92,000	33	86,400	31	81,600	30
218	4800	1.84	108,000	43			103,000	41	101,000	39	97,000	38	92,600	37	88,000	35
228	5000	2.00	113,000	48					106,000	45	103,000	44	99,000	42	94,400	40
239	5250	2.20	118,000	56					112,000	52	109,000	52	106,000	50	102,000	48
250	5500	2.42	124,000	61					118,000	62	116,000	60	113,000	58	109,000	56
261	5750	2.54	129,000	72							121,000	66	119,000	64	116,000	62
273	6000	2.87	136,000	84							127,000	78	126,000	78	124,000	76
284	6250	3.12	141,000	96									133,000	88	129,000	86
296	6500	3.38	147,000	110									139,000	100	137,000	100
307	6750	3.63	153,000	120											143,000	110
318	7000	3.91	158,000	130											150,000	125
341	7500	4.50	170,000	170												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
164	3600	1.03	32,400	9.3												
173	3800	1.15	42,000	12.5												
182	4000	1.28	51,400	16	35,400	14.0										
191	4200	1.41	59,800	20	45,000	16.5										
200	4400	1.54	67,600	24	53,800	21	39,000	16.5								
209	4600	1.69	76,000	28	62,600	26	49,000	22								
218	4800	1.84	82,600	34	71,200	30	58,600	27	44,600	22						
228	5000	2.00	89,800	39	79,200	36	67,400	33	54,600	28	53,800	31				
239	5250	2.20	97,600	46	88,400	43	77,800	40	65,800	36	65,600	40	54,200	35		
250	5500	2.42	106,000	54	97,400	52	87,400	48	76,600	44	77,000	48	61,800	42		
261	5750	2.54	112,000	60	104,000	58	96,200	56	87,400	52	86,800	58	77,000	54	66,400	49
273	6000	2.87	121,000	74	113,000	70	105,000	66	96,600	62	98,000	70	87,800	66	77,890	60
284	6250	3.12	128,000	86	121,000	80	114,000	78	106,000	74	106,000	80	98,000	76	89,000	72
296	6500	3.38	135,000	98	129,000	94	121,000	88	115,000	86	116,000	94	108,000	88	99,600	84
307	6750	3.63	142,000	110	136,000	105	130,000	100	123,000	98	124,000	110	117,000	105	109,000	98
318	7000	3.91	148,000	125	143,000	120	137,000	115	131,000	110	141,000	135	135,000	130	128,000	130
341	7500	4.50	160,000	155	157,000	150	152,000	145	146,000	140	156,000	170	151,800	165	145,000	160
364	8000	5.11			169,000	185	160,000	180	161,000	175	171,000	210	166,000	200	161,000	200
386	8500	5.76			182,000	220	179,000	220	174,000	210	185,000	250	181,000	250	176,000	240
409	9000	6.46			195,000	270	191,000	260	189,000	260	198,000	300	185,000	300	191,000	290
432	9500	7.20					204,000	320	202,000	310	212,000	360	208,000	350	206,000	350
455	10000	7.98					218,000	370	214,000	360						

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
284	6250	3.12	67,800	54												
296	6500	3.38	79,200	68	69,200	62										
307	6750	3.63	89,800	78	80,800	74										
318	7000	3.91	101,000	92	92,800	88	74,000	76								
341	7500	4.50	121,000	125	113,000	120	96,600	110	80,000	94						
364	8000	5.11	139,000	160	132,000	150	118,000	140	103,000	130	70,400	100				
386	8500	5.76	156,000	195	150,000	190	137,000	180	123,000	170	94,000	140				
409	9000	6.46	172,000	210	166,000	230	155,000	220	143,000	210	117,000	185	88,800	155		
432	9500	7.20	187,000	290	182,000	280	173,000	270	162,000	260	138,000	230	112,000	200	84,600	170
455	10000	7.98	202,000	340	198,000	330	188,000	320	179,000	310	158,000	290	134,000	260	109,000	230

Double Inlet

160" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
56	1400	0.157	19,700	0 77												
64	1600	0 205	29,000	1.35												
72	1800	0 259	36,800	2.1	18,300	1 3										
79	2000	0 320	44,000	3 0	29,000	2 1										
87	2200	0.387	50,600	4.2	38,400	3 4	22,200	2 4								
95	2400	0 460	56,400	5.5	46,400	4.7	33,000	3 8								
103	2600	0 540	62,200	7.2	54,000	6 3	42,400	5 4	29,000	4 6						
110	2800	0 626	67,800	9 1	61,200	8 2	51,200	7 3	38,400	6 1						
119	3000	0 718	73,400	11 0	68,000	10.5	59,400	9 3	48,800	8 2	37,400	6 9				
127	3200	0 816	78,600	13 0	71,200	13	66,600	12 0	57,800	10.5	47,100	9 4	36,000	7 8		
135	3400	0 922	84,200	16 5	80,000	16	74,000	15 0	66,200	13.5	56,800	12 0	45,600	10.5	35,600	9 0
143	3600	1 03	89,600	20	85,200	19	80,400	17.5	73,600	16 5	64,600	15 5	55,600	14	46,800	12 5
151	3800	1.15	95,000	21	91,600	23	87,000	21	80,600	20	73,600	19	65,200	17	56,600	16
159	4000	1 28	100,000	28			93,400	25	88,000	21	81,600	23	74,400	21	66,400	20
167	4200	1 41	106,000	32			98,200	30	94,600	28	89,400	26	82,200	26	75,200	24
175	4400	1 54	111,000	37			105,000	34	101,000	33	96,400	32	90,000	30	83,000	29
183	4600	1 69	116,000	42			111,000	40	108,000	39	103,000	37	97,000	35	90,800	34
191	4800	1 84	121,000	48			116,000	46	113,000	44	109,000	43	104,000	41	99,000	39
199	5000	2 00	126,000	54					119,000	50	115,200	49	111,000	47	106,000	45
209	5250	2 20	133,000	64					126,000	58	123,000	58	119,000	56	115,000	51
219	5500	2 42	139,000	74					133,000	68	131,000	68	127,000	66	123,000	64
229	5750	2 54	145,000	80							137,000	74	134,000	72	130,000	70
239	6000	2.87	153,000	94							143,000	88	142,000	88	139,000	84
249	6250	3 12	159,000	110									119,000	100	145,000	98
258	6500	3 38	165,000	120									157,000	114	154,000	110
268	6750	3 63	171,000	135											161,000	125
278	7000	3 91	178,000	150											168,000	140
298	7500	4 50	190,000	190												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
143	3600	1 03	36,400	10 5												
151	3800	1 15	47,200	14												
159	4000	1 28	57,800	18	39,800	15 5										
167	4200	1 41	67,200	22	50,600	18.5										
175	4400	1 54	76,000	27	60,400	23	43,800	19								
183	4600	1 69	85,200	32	70,400	29	55,200	24								
191	4800	1.84	93,000	38	80,000	34	65,800	30	50,200	25						
199	5000	2 00	101,000	44	89,000	40	75,600	37	61,200	32						
209	5250	2 20	110,000	52	99,400	49	87,400	45	74,000	40	60,400	35				
219	5500	2 42	119,000	62	109,000	58	98,200	54	86,000	50	73,800	45	60,800	40		
229	5750	2 54	126,000	68	117,000	66	108,000	62	98,200	58	86,400	54	69,400	48		
239	6000	2 87	135,000	82	128,000	78	118,000	74	108,000	70	97,800	66	86,400	62	74,000	56
249	6250	3 12	144,000	96	136,000	90	128,000	80	118,000	82	110,000	78	98,800	74	87,600	68
258	6500	3 38	151,000	110	145,000	105	136,000	100	129,000	96	121,000	90	110,000	86	100,000	82
268	6750	3 63	159,000	125	153,000	120	146,000	110	138,000	110	130,000	105	121,000	100	112,000	96
278	7000	3 91	168,000	140	161,000	130	154,000	130	147,000	125	140,000	120	132,000	115	122,000	110
298	7500	4 50	180,200	175	178,000	170	171,000	165	167,000	160	158,000	150	151,000	150	141,000	145
318	8000	5 11			190,800	210	186,000	200	181,000	195	176,000	190	169,000	185	173,000	180
338	8500	5 76			204,000	250	202,000	250	196,000	240	192,000	240	187,000	230	181,000	220
358	9000	6.46			220,000	300	216,000	300	212,000	290	208,000	290	204,000	280	198,000	270
378	9500	7 20					230,000	350	226,000	350	222,000	340	218,000	340	216,000	330
398	10000	7 98					244,000	420	242,000	410	238,000	400	234,000	400	230,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
249	6250	3 12	76,000	62												
258	6500	3 38	89,000	76	78,000	68										
268	6750	3 63	101,000	88	91,000	84										
278	7000	3 91	113,000	105	104,000	100	83,000	84								
298	7500	4 50	136,000	140	127,000	135	108,000	120	88,800	105						
318	8000	5 11	157,000	175	149,000	170	133,000	160	115,000	145	79,000	110				
338	8500	5 76	175,000	220	169,000	210	154,000	200	139,000	190	106,000	155				
358	9000	6 46	193,000	270	187,000	260	175,000	250	161,000	240	131,000	210	99,800	170		
378	9500	7 20	210,000	320	204,000	320	195,000	300	182,000	290	155,000	260	126,000	230	95,200	190
398	10000	7 98	226,000	390	222,000	380	212,000	360	202,000	350	178,000	320	151,000	290	122,000	250

Double Inlet

180" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
50	1400	0.157	24,600	0.96												
57	1600	0.205	36,200	1.7												
64	1800	0.259	46,000	2.6	22,800	1.6										
71	2000	0.320	55,000	3.7	36,200	2.7										
78	2200	0.387	63,200	5.2	48,000	4.3	27,800	3.0								
85	2400	0.460	70,600	6.9	58,000	5.9	41,200	4.7								
92	2600	0.540	77,800	9.0	67,600	7.9	53,200	6.7	36,200	5.8						
99	2800	0.626	85,000	11.5	76,600	10.0	64,000	9.1	49,200	7.6						
106	3000	0.718	91,800	14.0	85,000	13.0	74,200	11.5	61,200	10.0	46,800	8.7				
113	3200	0.816	98,200	17.5	92,800	16.0	83,400	15	72,400	13.5	59,200	12	45,000	9.8		
120	3400	0.922	105,000	21	100,000	19.5	92,600	18	82,800	17	71,000	15	57,000	13	44,600	11.0
127	3600	1.03	112,000	25	107,000	24	101,000	22	92,000	21	82,000	19	69,600	17	58,100	15.5
135	3800	1.15	119,000	30	115,000	28	109,000	27	101,000	25	92,000	23	81,600	22	70,800	20
141	4000	1.28	125,000	35			117,000	32	110,000	30	102,000	28	93,000	27	83,000	25
149	4200	1.41	132,000	40			124,000	37	118,000	36	112,000	31	103,000	32	94,200	30
156	4400	1.54	134,000	46			131,000	43	126,000	42	121,000	40	112,000	38	104,000	36
163	4600	1.69	145,000	52			138,000	50	135,000	49	130,000	47	122,000	44	115,000	42
170	4800	1.84	151,000	60			145,000	56	141,000	56	136,000	52	130,000	52	124,000	50
177	5000	2.00	158,000	68					148,000	64	144,000	62	139,000	60	133,000	56
186	5250	2.20	166,000	80					158,000	74	154,000	72	149,000	70	144,000	68
194	5500	2.42	174,000	92					167,000	86	163,000	84	159,000	82	154,000	80
204	5750	2.54	182,000	100							171,000	92	167,000	90	163,000	88
212	6000	2.87	191,000	120							179,000	110	178,000	110	174,000	110
221	6250	3.12	198,000	135									187,000	125	181,000	120
230	6500	3.38	206,000	150									196,000	145	193,000	140
239	6750	3.63	214,000	170											202,000	155
248	7000	3.91	220,000	190											210,000	175
266	7500	4.50	238,000	230												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
127	3600	1.03	45,600	13.0												
135	3800	1.15	59,200	17.5												
141	4000	1.28	72,400	23	49,800	19										
149	4200	1.41	84,000	28	63,400	23										
156	4400	1.54	95,000	31	75,600	29	55,000	23								
163	4600	1.69	107,000	40	88,000	36	68,800	30								
170	4800	1.84	116,000	48	100,000	43	82,400	38	62,800	31						
177	5000	2.00	126,000	56	111,000	50	94,600	46	76,800	40						
186	5250	2.20	137,000	64	124,000	60	110,000	56	92,600	50	75,600	44				
194	5500	2.42	148,000	76	137,000	72	123,000	68	108,000	62	92,200	56	76,200	50		
204	5750	2.54	157,000	86	146,000	82	135,000	78	123,000	72	108,000	68	87,000	60		
212	6000	2.87	169,000	105	160,000	98	148,000	94	124,000	88	112,000	82	108,000	76	93,200	70
221	6250	3.12	180,000	120	172,000	110	160,000	110	149,000	105	138,000	98	124,000	92	110,000	84
230	6500	3.38	189,000	135	181,000	130	171,000	125	162,000	120	151,000	110	138,000	110	125,000	100
239	6750	3.63	198,000	150	191,000	150	182,000	140	173,000	135	163,000	130	151,000	125	140,000	120
248	7000	3.91	208,000	170	202,000	170	193,000	160	184,000	155	175,000	150	165,000	145	153,000	135
266	7500	4.50	226,000	220	220,000	210	214,000	200	208,000	195	198,000	190	189,000	190	180,000	180
283	8000	5.11			238,000	260	234,000	250	226,000	250	220,000	240	212,000	230	204,000	230
301	8500	5.76			256,000	320	252,000	310	244,000	300	240,000	290	234,000	290	226,000	280
319	9000	6.46			274,000	380	270,000	370	266,000	370	260,000	360	254,000	350	248,000	340
336	9500	7.20					288,000	440	284,000	440	278,000	430	274,000	420	270,000	410
354	10000	7.98					306,000	520	302,000	510	296,000	500	292,000	500	288,000	490

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3¼" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
221	6250	3.12	95,200	78												
230	6500	3.38	111,000	91	97,400	86										
239	6700	3.63	127,000	110	111,000	105										
248	7000	3.91	142,000	130	131,000	125	104,000	110								
266	7500	4.50	170,000	170	159,000	170	136,000	150	112,000	130						
283	8000	5.11	195,000	220	186,000	210	166,000	200	144,000	180	98,800	140				
301	8500	5.76	220,000	270	212,000	270	193,000	250	170,000	230	132,000	195				
319	9000	6.46	242,000	330	234,000	330	218,000	310	202,000	300	164,000	260	125,000	220		
336	9500	7.20	264,000	400	256,000	400	244,000	380	228,000	360	194,000	330	158,000	290	119,000	240
354	10000	7.98	284,000	480	278,000	470	266,000	460	252,000	440	222,000	400	189,000	360	153,000	320

Double Inlet

160″ Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1400	0.157	19,700	0.77												
64	1600	0.205	29,000	1.35												
72	1800	0.259	36,800	2.1	18,300	1.3										
79	2000	0.320	44,000	3.0	29,000	2.1										
87	2200	0.387	50,600	4.2	38,400	3.4	22,200	2.4								
95	2400	0.460	56,400	5.5	46,400	4.7	33,000	3.8								
103	2600	0.540	62,200	7.2	54,000	6.3	42,400	5.4	29,000	4.6						
110	2800	0.626	67,800	9.1	61,200	8.2	51,200	7.3	38,400	6.1						
119	3000	0.718	73,400	11.0	68,000	10.5	59,400	9.3	48,800	8.2	37,400	6.9				
127	3200	0.816	78,600	13.0	71,200	13	66,600	12.0	57,800	10.5	47,100	9.4	36,000	7.8		
135	3400	0.922	84,200	16.5	80,000	16	74,000	15.0	66,200	13.5	56,800	12.0	45,600	10.5	35,600	9.0
143	3600	1.03	89,600	20	85,200	19	80,400	17.5	73,600	16.5	64,600	15.5	55,600	14	46,800	12.5
151	3800	1.15	95,000	21	91,600	23	87,000	21	80,600	20	73,600	19	65,200	17	56,000	16
159	4000	1.28	100,000	28			93,400	25	88,000	21	81,600	23	74,400	21	66,400	20
167	4200	1.41	106,000	32			98,200	30	94,600	28	89,400	26	82,200	26	75,200	24
175	4400	1.54	111,000	37			105,000	34	101,000	33	96,400	32	90,000	30	83,000	29
183	4600	1.69	116,000	42			111,000	40	108,000	39	103,000	37	97,000	35	90,800	34
191	4800	1.84	121,000	48			116,000	46	113,000	44	109,000	43	104,000	41	99,000	39
199	5000	2.00	126,000	54					119,000	50	115,200	49	111,000	47	106,000	45
209	5250	2.20	133,000	64					126,000	58	123,000	58	119,000	56	115,000	51
219	5500	2.42	139,000	74					133,000	68	131,000	68	127,000	66	123,000	64
229	5750	2.54	145,000	80							137,000	74	134,000	72	130,000	70
239	6000	2.87	153,000	94							143,000	88	142,000	88	139,000	84
249	6250	3.12	159,000	110									119,000	100	145,000	98
258	6500	3.38	165,000	120									157,000	114	154,000	110
268	6750	3.63	171,000	135											161,000	125
278	7000	3.91	178,000	150											168,000	140
298	7500	4.50	190,000	190												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .878 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2¼″ Water 1.30 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch	
143	3600	1.03	36,400	10.5												
151	3800	1.15	47,200	14												
159	4000	1.28	57,800	18	39,800	15.5										
167	4200	1.41	67,200	22	50,600	18.5										
175	4400	1.54	76,000	27	60,400	23	43,800	19								
183	4600	1.69	85,200	32	70,400	29	55,200	24								
191	4800	1.84	93,000	38	80,000	34	65,800	30	50,200	25						
199	5000	2.00	101,000	44	89,000	40	75,600	37	61,200	32						
209	5250	2.20	110,000	52	99,400	49	87,400	45	74,000	40	60,400	35				
219	5500	2.42	119,000	62	109,000	58	98,200	54	86,000	50	73,800	45	60,800	40		
229	5750	2.54	126,000	68	117,000	66	108,000	62	98,200	58	86,400	54	69,400	48		
239	6000	2.87	135,000	82	128,000	78	118,000	74	108,000	70	97,800	66	86,400	62	74,000	56
249	6250	3.12	144,000	96	136,000	90	128,000	80	118,000	82	110,000	78	98,800	74	87,600	68
258	6500	3.38	151,000	110	145,000	105	136,000	100	129,000	96	121,000	90	110,000	86	100,000	82
268	6750	3.63	159,000	125	153,000	120	146,000	110	138,000	110	130,000	105	121,000	100	112,000	96
278	7000	3.91	168,000	140	161,000	130	154,000	130	147,000	125	140,000	120	132,000	115	122,000	110
298	7500	4.50	180,200	175	178,000	170	171,000	165	167,000	160	158,000	150	151,000	150	141,000	145
318	8000	5.11			190,800	210	186,000	200	181,000	195	176,000	190	169,000	185	173,000	180
338	8500	5.76			204,000	250	202,000	250	196,000	240	192,000	240	187,000	230	181,000	220
358	9000	6.46			220,000	300	216,000	300	212,000	290	208,000	290	204,000	280	198,000	270
378	9500	7.20					230,000	350	226,000	350	222,000	340	218,000	340	216,000	330
398	10000	7.98					244,000	420	242,000	410	238,000	400	234,000	400	230,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾″ Water 1.59 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
249	6250	3.12	76,000	62												
258	6500	3.38	89,000	76	78,000	68										
268	6750	3.63	101,000	88	91,000	84										
278	7000	3.91	113,000	105	104,000	100	83,000	84								
298	7500	4.50	136,000	140	127,000	135	108,000	120	88,800	105						
318	8000	5.11	157,000	175	149,000	170	133,000	160	115,000	145	79,000	110				
338	8500	5.76	175,000	220	169,000	210	154,000	200	139,000	190	106,000	155				
358	9000	6.46	193,000	270	187,000	260	175,000	250	161,000	240	131,000	210	99,800	170		
378	9500	7.20	210,000	320	204,000	320	195,000	300	182,000	290	155,000	260	126,000	230	95,200	190
398	10000	7.98	226,000	390	222,000	380	212,000	360	202,000	350	178,000	320	151,000	280	122,000	250

Double Inlet # 220" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
40	1400	0.157	40,800	1.6												
46	1600	0.205	60,000	2.8												
52	1800	0.259	76,400	4.3	38,000	2.7										
58	2000	0.320	91,200	6.2	60,000	4.1										
64	2200	0.387	105,000	8.7	79,600	7.1	46,000	4.9								
69	2400	0.460	117,000	11.5	96,400	9.8	68,400	6.9								
75	2600	0.510	129,000	15	112,000	13	88,000	11.0	60,000	9.6						
81	2800	0.626	141,000	19	127,000	17	106,000	15.0	81,800	12.5						
87	3000	0.718	152,000	23	141,000	22	123,000	19.5	101,000	17	77,600	14.5				
93	3200	0.816	163,000	29	151,000	27	138,000	24	120,000	22	98,200	19.5	74,600	16		
98	3400	0.922	175,000	35	166,000	33	154,000	30	137,000	28	118,000	25	94,600	22	74,200	18.5
104	3600	1.03	186,000	45	177,000	39	177,000	37	153,000	34	136,000	32	115,000	28	97,000	26
110	3800	1.15	197,000	49	190,000	47	181,000	44	167,000	41	153,000	39	135,000	36	117,000	33
116	4000	1.28	208,000	58			194,000	52	183,000	50	169,000	47	155,600	44	138,000	41
121	4200	1.41	220,000	68			206,000	62	197,000	60	186,000	56	171,000	54	156,000	50
127	4400	1.54	230,000	76			218,000	72	210,000	68	200,000	66	187,000	62	172,000	60
133	4600	1.69	242,000	88			230,000	82	224,000	82	214,000	78	202,000	74	191,000	70
139	4800	1.81	252,000	100			242,000	94	236,000	92	226,000	88	216,000	86	206,000	82
145	5000	2.00	262,000	110					246,000	105	240,000	105	232,000	98	220,000	94
152	5250	2.20	276,000	130					262,000	125	254,000	120	248,000	115	238,000	100
159	5500	2.42	290,000	150					276,000	145	272,000	140	264,000	135	256,000	130
166	5750	2.51	302,000	165							284,000	155	278,000	150	270,000	145
174	6000	2.87	316,000	195							298,000	185	294,000	180	288,000	175
181	6250	3.12	330,000	220									310,000	210	302,000	200
188	6500	3.38	342,000	250									326,000	240	320,000	230
195	6750	3.63	356,000	380											334,000	260
202	7000	3.91	370,000	310											350,000	290
217	7500	4.50	396,000	390												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
104	3600	1.03	75,600	22												
110	3800	1.15	98,200	29												
116	4000	1.28	120,000	38	82,000	32										
121	4200	1.41	139,000	46	105,000	39										
127	4400	1.54	158,000	56	125,000	48	91,200	39								
133	4600	1.69	177,000	66	146,000	60	114,000	53								
139	4800	1.81	193,000	78	166,000	72	137,000	64	104,000	52						
145	5000	2.00	210,000	92	185,000	84	157,000	76	127,000	66						
152	5250	2.20	228,000	110	206,000	100	182,000	94	154,000	84	125,000	72				
159	5500	2.42	246,000	130	228,000	120	204,000	110	179,000	105	153,000	94	126,000	82		
166	5750	2.54	262,000	140	244,000	135	224,000	130	204,000	120	179,000	110	144,000	100		
174	6000	2.87	282,000	170	264,000	165	246,000	155	226,000	150	202,000	135	179,000	130	155,000	115
181	6250	3.12	298,000	200	284,000	190	266,000	180	248,000	170	228,000	160	204,000	150	182,000	140
188	6500	3.38	314,000	230	302,000	220	284,000	210	270,000	200	250,000	190	228,000	180	208,000	170
195	6750	3.63	330,000	260	318,000	250	302,000	230	288,000	230	270,000	220	252,000	210	232,000	195
202	7000	3.91	346,000	290	334,000	280	320,000	270	306,000	260	290,000	250	274,000	240	254,000	230
217	7500	4.50	374,000	360	366,000	350	354,000	340	342,000	330	330,000	320	314,000	310	300,000	300
231	8000	5.11			396,000	430	388,000	420	376,000	410	366,000	400	352,000	390	340,000	380
246	8500	5.76			426,000	520	418,000	510	406,000	500	400,000	490	388,000	480	376,000	460
260	9000	6.46			454,000	630	446,000	620	440,000	610	432,000	590	422,000	580	412,000	570
274	9500	7.20					478,000	740	470,000	720	462,000	710	454,000	700	446,000	680
289	10000	7.98					508,000	870	500,000	850	492,000	840	486,000	830	478,000	810

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
181	6250	3.12	158,000	130												
188	6500	3.38	195,000	155	162,000	145										
195	6750	3.63	210,000	185	189,000	170										
202	7000	3.91	236,000	220	216,000	210	173,000	175								
217	7500	4.50	282,000	290	264,000	280	226,000	250	186,000	220						
231	8000	5.11	324,000	370	308,000	360	276,000	330	240,000	300	164,000	230				
246	8500	5.76	366,000	450	350,000	440	320,000	420	288,000	390	220,000	330				
260	9000	6.46	402,000	560	388,000	540	364,000	520	334,000	490	272,000	430	208,000	360		
274	9500	7.20	438,000	670	424,000	660	404,000	630	378,000	600	322,000	540	262,000	480	198,000	390
289	10000	7.98	470,000	800	460,000	780	440,000	750	418,000	730	370,000	670	314,000	600	254,000	530

Double Inlet

160" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
56	1400	0.157	19,700	0.77												
64	1600	0.205	29,000	1.35												
72	1800	0.259	36,800	2.1	18,300	1.3										
79	2000	0.320	44,000	3.0	29,000	2.1										
87	2200	0.387	50,600	4.2	38,400	3.4	22,200	2.4								
95	2400	0.460	56,400	5.5	46,400	4.7	33,000	3.8								
103	2600	0.540	62,200	7.2	54,000	6.3	42,400	5.4	29,000	4.6						
110	2800	0.626	67,800	9.1	61,200	8.2	51,200	7.3	38,400	6.1						
119	3000	0.718	73,400	11.0	68,000	10.5	59,400	9.3	48,800	8.2	37,400	6.9				
127	3200	0.816	78,600	13.0	71,200	13	66,600	12.0	57,800	10.5	47,100	9.4	36,000	7.8		
135	3400	0.922	84,200	16.5	80,000	16	74,000	15.0	66,200	13.5	56,800	12.0	45,600	10.5	35,600	9.0
143	3600	1.03	89,600	20	85,200	19	80,400	17.5	73,600	16.5	64,600	15.5	55,600	14	46,800	12.5
151	3800	1.15	95,000	21	91,600	23	87,000	21	80,600	20	73,600	19	65,200	17	56,600	16
159	4000	1.28	100,000	28			93,400	25	88,000	21	81,600	23	74,400	21	66,400	20
167	4200	1.41	106,000	32			98,200	30	94,600	28	89,400	26	82,200	26	75,200	24
175	4400	1.54	111,000	37			105,000	34	101,000	33	96,400	32	90,000	30	83,000	29
183	4600	1.69	116,000	42			111,000	40	108,000	39	103,000	37	97,000	35	90,800	34
191	4800	1.84	121,000	48			116,000	46	113,000	44	109,000	43	104,000	41	99,000	39
199	5000	2.00	126,000	54					119,000	50	115,200	49	111,000	47	106,000	45
209	5250	2.20	133,000	64					126,000	58	123,000	58	119,000	56	115,000	51
219	5500	2.42	139,000	74					133,000	68	131,000	68	127,000	66	123,000	64
229	5750	2.54	145,000	80							137,000	74	134,000	72	130,000	70
239	6000	2.87	153,000	94							143,000	88	142,000	88	139,000	84
249	6250	3.12	159,000	110									119,000	100	145,000	98
258	6500	3.38	165,000	120									157,000	114	154,000	110
268	6750	3.63	171,000	135											161,000	125
278	7000	3.91	178,000	150											168,000	140
298	7500	4.50	190,000	190												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
143	3600	1.03	36,400	10.5												
151	3800	1.15	47,200	14												
159	4000	1.28	57,800	18	39,800	15.5										
167	4200	1.41	67,200	22	50,600	18.5										
175	4400	1.54	76,000	27	60,400	23	43,800	19								
183	4600	1.69	85,200	32	70,400	29	55,200	24								
191	4800	1.84	93,000	38	80,000	34	65,800	30	50,200	25						
199	5000	2.00	101,000	44	89,000	40	75,600	37	61,200	32						
209	5250	2.20	110,000	52	99,400	49	87,400	45	74,000	40	60,400	35				
219	5500	2.42	119,000	62	109,000	58	98,200	54	86,000	50	73,800	45	60,800	40		
229	5750	2.54	126,000	68	117,000	66	108,000	62	98,200	58	86,400	54	69,400	48		
239	6000	2.87	135,000	82	128,000	78	118,000	74	108,000	70	97,800	66	86,400	62	74,000	56
249	6250	3.12	144,000	96	136,000	90	128,000	80	118,000	82	110,000	78	98,800	74	87,600	68
258	6500	3.38	151,000	110	145,000	105	136,000	100	129,000	96	121,000	90	110,000	86	100,000	82
268	6750	3.63	159,000	125	153,000	120	146,000	110	138,000	110	130,000	105	121,000	100	112,000	96
278	7000	3.91	168,000	140	161,000	130	154,000	130	147,000	125	140,000	120	132,000	115	122,000	110
298	7500	4.50	180,200	175	178,000	170	171,000	165	167,000	160	158,000	150	151,000	150	141,000	145
318	8000	5.11			190,800	210	186,000	200	181,000	195	176,000	190	169,000	185	173,000	180
338	8500	5.76			204,000	250	202,000	250	196,000	240	192,000	240	187,000	230	181,000	220
358	9000	6.46			220,000	300	216,000	300	212,000	290	208,000	290	204,000	280	198,000	270
378	9500	7.20					230,000	350	226,000	350	222,000	340	218,000	340	216,000	330
398	10000	7.98					244,000	420	242,000	410	238,000	400	234,000	400	230,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
249	6250	3.12	76,000	62												
258	6500	3.38	89,000	76	78,000	68										
268	6750	3.63	101,000	88	91,000	84										
278	7000	3.91	113,000	105	104,000	100	83,000	84								
298	7500	4.50	136,000	140	127,000	135	108,000	120	88,800	105						
318	8000	5.11	157,000	175	149,000	170	133,000	160	115,000	145	79,000	110				
338	8500	5.76	175,000	220	169,000	210	154,000	200	139,000	190	106,000	155				
358	9000	6.46	193,000	270	187,000	260	175,000	250	161,000	240	131,000	210	99,800	170		
378	9500	7.20	210,000	320	204,000	320	195,000	300	182,000	290	155,000	260	126,000	230	95,200	190
398	10000	7.98	226,000	390	222,000	380	212,000	360	202,000	350	178,000	320	151,000	280	122,000	250

Double Inlet # 260" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
34	1400	0.157	52,800	2.1												
39	1600	0.205	77,600	3.6												
44	1800	0.259	98,800	5.6	49,000	3.5										
49	2000	0.320	118,000	8	77,600	4.7										
54	2200	0.387	136,000	11	103,000	9.2	57,600	6.4								
59	2400	0.460	151,000	15	125,000	12.5	88,200	10.0								
64	2600	0.540	167,000	19	145,000	17	114,000	14.5	77,600	12.5						
69	2800	0.626	182,000	24	164,000	22	137,000	19.5	106,000	16.5						
73	3000	0.718	197,000	30	182,000	28	159,000	25	134,000	22	100,000	18.5				
78	3200	0.816	210,000	37	199,000	35	179,000	32	155,000	29	127,000	25	96,200	21		
83	3400	0.922	226,000	45	214,000	42	199,000	39	178,000	36	152,000	33	122,000	29	95,800	24
88	3600	1.03	240,000	54	228,000	50	216,000	48	197,000	44	176,000	41	149,000	37	125,000	33
93	3800	1.15	254,000	64	246,000	60	231,000	58	216,000	54	197,000	50	175,000	46	151,800	42
98	4000	1.28	268,000	74			250,000	68	236,000	64	218,000	60	199,000	58	178,000	54
103	4200	1.41	284,000	86			266,000	80	254,000	76	240,000	72	220,000	70	202,000	64
108	4400	1.54	298,000	98			282,000	92	270,000	90	258,000	84	242,000	80	222,000	76
113	4600	1.69	312,000	110			298,000	110	288,000	105	278,000	100	260,000	94	246,000	92
117	4800	1.84	324,000	130			312,000	125	304,000	120	292,000	116	280,000	110	266,000	105
122	5000	2.00	340,000	145					318,000	136	310,000	132	298,000	130	284,000	120
129	5250	2.20	356,000	170					338,000	160	330,000	155	320,000	150	308,000	145
135	5500	2.42	371,000	195					358,000	185	350,000	180	340,000	175	330,000	170
141	5750	2.54	390,000	210							366,000	200	360,000	195	350,000	190
147	6000	2.87	408,000	250							381,000	240	382,000	230	374,000	230
153	6250	3.12	426,000	290									400,000	270	390,000	260
159	6500	3.38	442,000	320									420,000	310	412,000	300
165	6750	3.63	460,000	360											432,000	330
171	7000	3.91	478,000	400											452,000	380
184	7500	4.50	512,000	500												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
88	3600	1.03	97,800	28												
93	3800	1.15	127,000	38												
98	4000	1.28	155,000	49	107,000	42										
103	4200	1.41	180,000	60	136,000	50										
108	4400	1.54	204,000	72	162,000	62	118,000	50								
113	4600	1.69	228,000	86	180,000	76	148,000	66								
117	4800	1.84	250,000	100	216,000	92	177,000	82	135,000	66						
122	5000	2.00	270,000	120	238,000	110	204,000	98	165,000	86						
129	5250	2.20	294,000	140	266,000	130	231,000	120	199,000	110	162,000	94				
135	5500	2.42	318,000	165	294,000	155	264,000	145	230,000	130	198,000	120	163,000	110		
141	5750	2.54	338,000	184	314,000	175	290,000	170	264,000	155	232,000	145	186,000	130		
147	6000	2.87	364,000	220	342,000	210	318,000	200	292,000	190	262,000	175	232,000	165	200,000	150
153	6250	3.12	386,000	260	366,000	240	344,000	230	320,000	220	296,000	210	264,000	195	234,000	180
159	6500	3.38	406,000	290	390,000	280	366,000	270	348,000	260	324,000	240	296,000	230	268,000	220
165	6750	3.63	426,000	330	410,000	320	392,000	300	372,000	290	350,000	280	324,000	270	300,000	260
171	7000	3.91	446,000	370	432,000	360	414,000	350	394,000	330	376,000	320	354,000	310	328,000	290
184	7500	4.50	484,000	470	472,000	450	458,000	440	442,000	420	424,000	410	406,000	400	386,000	390
196	8000	5.11			512,000	560	500,000	550	486,000	530	472,000	510	454,000	500	438,000	490
208	8500	5.76			550,000	680	540,000	660	526,000	650	516,000	630	500,000	610	486,000	600
220	9000	6.46			588,000	820	578,000	800	568,000	780	558,000	770	546,000	750	532,000	730
233	9500	7.20					616,000	950	606,000	940	596,000	920	588,000	900	576,000	880
245	10000	7.98					656,000	1120	646,000	1090	636,000	1080	628,000	1060	618,000	1040

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
153	6250	3.12	204,000	165												
159	6500	3.38	238,000	200	208,000	185										
165	6750	3.63	270,000	240	244,000	220										
171	7000	3.91	304,000	280	280,000	270	222,000	230								
184	7500	4.50	364,000	370	342,000	360	292,000	320	240,000	280						
196	8000	5.11	420,000	470	400,000	460	356,000	430	310,000	390	272,000	300				
208	8500	5.76	472,000	590	452,000	570	414,000	540	372,000	500	284,000	420				
220	9000	6.46	518,000	720	502,000	700	468,000	670	432,000	630	352,000	560	268,000	470		
233	9500	7.20	564,000	870	550,000	850	522,000	810	488,000	770	416,000	700	338,000	620	256,000	510
245	10000	7.98	608,000	1030	596,000	1010	568,000	970	540,000	940	478,000	870	406,000	780	328,000	680

Double Inlet **Double Width**

280" Steel Plate Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure ⅛" Water .0722 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅞" Water .506 ozs. per sq. inch	H. P.
32	1400	0.157	61,600	2.1												
36	1600	0.205	90,600	4.2												
41	1800	0.259	115,000	6.5	57,200	4.1										
45	2000	0.320	137,000	9.1	90,600	6.7										
50	2200	0.387	158,000	13	120,00	10.5	69,600	7.5								
55	2400	0.460	176,000	17	145,00	15.0	103,000	12								
59	2600	0.540	195,000	22	169,00	19.5	133,000	17	90,400	14.5						
64	2800	0.626	212,000	28	192,00	26	160,000	23	123,000	19						
68	3000	0.718	230,000	35	212,000	32	186,000	29	154,000	26	117,000	22				
73	3200	0.816	246,000	43	232,000	40	208,000	37	181,000	33	148,000	29	112,000	24		
77	3400	0.922	264,000	52	250,000	49	232,000	46	208,000	42	178,000	38	143,000	33	112,000	28
82	3600	1.03	280,000	64	266,000	60	252,000	56	230,000	52	206,000	48	171,000	43	146,000	39
86	3800	1.15	296,000	74	286,000	70	272,000	66	252,000	62	230,000	58	201,000	54	177,000	50
90	4000	1.28	314,000	86			292,000	80	276,000	71	256,000	72	232,000	66	208,000	62
95	4200	1.41	330,000	100			310,000	94	296,000	88	280,000	84	258,000	80	236,000	76
100	4400	1.54	346,000	115			328,000	110	316,000	105	302,000	98	282,000	94	260,000	90
105	4600	1.69	364,000	130			346,000	125	336,000	125	334,000	115	304,000	110	288,000	110
109	4800	1.84	378,000	150			364,000	145	354,000	140	342,000	135	328,000	130	310,000	125
114	5000	2.00	396,000	170					372,000	160	362,000	150	348,000	150	332,000	145
119	5250	2.20	416,000	200					394,000	185	384,000	180	374,000	180	360,000	170
125	5500	2.42	436,000	230					416,000	220	408,000	210	396,000	210	386,000	200
131	5750	2.54	454,000	250							428,000	230	420,000	230	408,000	220
136	6000	2.87	478,000	300							448,000	280	444,000	270	436,000	270
142	6250	3.12	496,000	340									468,000	310	454,000	320
148	6500	3.38	516,000	380									490,000	360	482,000	350
153	6750	3.63	538,000	420											504,000	390
159	7000	3.91	556,000	470											526,000	410
170	7500	4.50	598,000	580												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
82	3600	1.03	114,000	33												
86	3800	1.15	148,000	41												
90	4000	1.28	181,000	56	124,000	49										
95	4200	1.41	210,000	70	158,000	58										
100	4400	1.54	238,000	84	189,000	72	137,000	58								
105	4600	1.69	268,000	100	220,000	90	172,000	76								
109	4800	1.84	290,000	120	250,000	110	206,000	96	157,000	78						
114	5000	2.00	316,000	140	278,000	130	236,000	115	192,000	100						
119	5250	2.20	342,000	165	310,000	150	274,000	140	232,000	125	189,000	110				
125	5500	2.42	372,000	190	342,000	185	308,000	170	270,000	155	232,000	140	190,000	125		
131	5750	2.54	394,000	210	366,000	200	338,000	190	308,000	185	270,000	170	218,000	150		
136	6000	2.87	424,000	260	400,000	250	370,000	230	340,000	220	306,000	210	270,000	190	234,000	170
142	6250	3.12	450,000	300	428,000	280	400,000	270	372,000	260	344,000	240	308,000	230	274,000	210
148	6500	3.38	474,000	340	454,000	310	426,000	310	404,000	300	378,000	280	344,000	270	314,000	250
153	6750	3.63	496,000	390	480,000	370	456,000	350	432,000	340	408,000	330	378,000	310	350,000	300
159	7000	3.91	520,000	440	504,000	420	482,000	400	460,000	390	438,000	370	412,000	360	382,000	340
170	7500	4.50	564,000	550	552,000	530	534,000	510	516,000	490	496,000	480	474,000	470	450,000	450
182	8000	5.11			596,000	650	584,000	640	568,000	610	550,000	600	530,000	580	510,000	570
193	8500	5.76			640,000	790	630,000	780	612,000	750	600,000	740	584,000	720	566,000	700
205	9000	6.46			684,000	950	672,000	930	664,000	910	650,000	890	636,000	880	620,000	850
216	9500	7.20					720,000	1110	708,000	1090	696,000	1070	684,000	1050	672,000	1030
227	10000	7.98					766,000	1310	754,000	1280	742,000	1260	732,000	1240	722,000	1220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
142	6250	3.12	238,000	190												
148	6500	3.38	278,000	240	244,000	210										
153	6750	3.63	316,000	280	284,000	260										
159	7000	3.91	354,000	330	326,000	310	260,000	270								
170	7500	4.50	424,000	430	398,000	420	340,000	370	280,000	330						
182	8000	5.11	488,000	550	466,000	540	416,000	500	362,000	450	248,000	350				
193	8500	5.76	550,000	690	528,000	660	484,000	630	434,000	590	330,000	490				
205	9000	6.46	604,000	840	584,000	820	548,000	780	504,000	740	410,000	650	312,000	540		
216	9500	7.20	658,000	1010	640,000	990	608,000	950	568,000	900	484,000	820	394,000	720	298,000	600
227	10000	7.98	710,000	1200	694,000	1180	664,000	1130	632,000	1100	556,000	1010	472,000	910	382,000	790

Double Inlet

300" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
30	1400	0.157	69,200	2.7												
34	1600	0.205	101,000	4.7												
38	1800	0.259	129,000	7.3	61,000	4.6										
42	2000	0.320	151,000	10.5	101,000	7.5										
47	2200	0.387	177,000	14.5	135,000	12.9	77,800	8.3								
51	2400	0.460	198,000	19.5	163,000	16.5	115,000	13								
55	2600	0.540	218,000	25	189,000	22	149,000	19	101,000	16						
59	2800	0.626	238,000	32	214,000	29	179,000	25	138,000	21						
64	3000	0.718	258,000	40	238,000	36	208,000	33	171,000	29	131,000	24				
68	3200	0.816	276,000	49	260,000	45	231,000	42	202,000	38	166,000	33	126,000	27		
72	3400	0.922	296,000	58	280,000	56	260,000	52	232,000	47	199,000	43	160,000	37	125,000	31
76	3600	1.03	314,000	70	300,000	66	282,000	62	258,000	58	230,000	54	183,000	48	164,000	43
81	3800	1.15	332,000	84	322,000	80	306,000	74	282,000	70	258,000	66	228,000	60	198,000	56
85	4000	1.28	350,000	96			338,000	90	308,000	81	286,000	80	260,000	74	232,000	70
89	4200	1.41	370,000	110			348,000	105	332,000	100	314,000	94	288,000	90	264,000	84
93	4400	1.54	388,000	130			368,000	120	354,000	115	338,000	110	316,000	105	292,000	100
98	4600	1.69	408,000	150			388,000	140	378,000	135	362,000	130	340,000	125	332,000	120
102	4800	1.84	424,000	170			408,000	160	396,000	155	382,000	150	376,000	145	348,000	135
106	5000	2.00	444,000	190					416,000	180	404,000	170	390,000	165	372,000	160
111	5250	2.20	466,000	220					442,000	210	430,000	200	418,000	195	402,000	190
117	5500	2.42	488,000	260					466,000	240	458,000	240	444,000	230	432,000	220
122	5750	2.54	510,000	280							478,000	260	470,000	250	456,000	250
127	6000	2.87	534,000	330							502,000	310	498,000	310	488,000	300
133	6250	3.12	556,000	380									524,000	350	504,000	340
138	6500	3.38	578,000	420									550,000	400	540,000	390
143	6750	3.63	602,000	480											564,000	440
148	7000	3.91	624,000	530												
159	7500	4.50	670,000	660												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
76	3600	1.03	128,000	37												
81	3800	1.15	166,000	49												
85	4000	1.28	202,000	64	139,000	54										
89	4200	1.41	236,000	78	177,400	66										
93	4400	1.54	266,000	94	212,000	82	154,000	66								
98	4600	1.69	300,000	110	246,000	100	193,000	86								
102	4800	1.84	326,000	130	280,000	120	230,000	110	176,000	86						
106	5000	2.00	354,000	155	312,000	140	266,000	130	216,000	110						
111	5250	2.20	384,000	180	348,000	170	306,000	155	260,000	140	212,000	125				
117	5500	2.42	416,000	220	384,000	200	344,000	190	302,000	175	258,000	155	214,000	140		
122	5750	2.54	440,000	240	410,000	230	380,000	220	344,000	200	302,000	190	244,000	170		
127	6000	2.87	476,000	290	448,000	270	416,000	260	380,000	250	342,000	230	304,000	210	262,000	190
133	6250	3.12	504,000	340	478,000	320	448,000	300	418,000	290	386,000	270	346,000	260	306,000	240
138	6500	3.38	530,000	380	508,000	370	478,000	350	454,000	340	422,000	310	386,000	300	350,000	280
143	6750	3.63	556,000	430	536,000	410	512,000	400	486,000	380	456,000	370	421,000	350	392,000	330
148	7000	3.91	582,000	490	564,000	470	542,000	450	516,000	430	490,000	420	462,000	400	428,000	380
159	7500	4.50	632,000	610	618,000	590	598,000	570	578,000	550	556,000	540	530,000	520	504,000	500
170	8000	5.11			668,000	730	654,000	710	636,000	690	616,000	670	594,000	650	572,000	640
180	8500	5.76			718,000	880	706,000	870	686,000	850	672,000	830	656,000	800	634,000	780
191	9000	6.46			778,000	1070	754,000	1040	744,000	1020	728,000	1000	714,000	980	694,000	960
201	9500	7.20					806,000	1240	794,000	1220	780,000	1200	768,000	1180	754,000	1150
212	10000	7.98					858,000	1470	846,000	1430	832,000	1410	820,000	1390	808,000	1370

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
133	6250	3.12	266,000	220												
138	6500	3.38	312,000	260	274,000	240										
143	6750	3.63	354,000	310	319,000	290										
148	7000	3.91	396,000	370	376,000	350	292,000	300								
159	7500	4.50	476,000	490	446,000	470	388,000	420	314,000	370						
170	8000	5.11	548,000	620	522,000	600	466,000	560	404,000	510	278,000	400				
180	8500	5.76	616,000	770	592,000	740	542,000	710	486,000	660	370,000	550				
191	9000	6.46	678,000	940	656,000	970	612,000	870	564,000	830	460,000	730	350,000	610		
201	9500	7.20	736,000	1130	718,000	1110	680,000	1060	638,000	1010	514,000	920	442,000	800	334,000	670
212	10000	7.98	796,000	1350	778,000	1320	744,000	1270	708,000	1230	624,000	1130	530,000	1020	428,000	898

Double Inlet

320" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
28	1400	0.157	78,000	3.0												
32	1600	0.205	114,000	5.3												
36	1800	0.259	146,000	8.2	72,400	5.2										
40	2000	0.320	174,000	12.0	114,400	8.4										
44	2200	0.387	200,000	16.5	152,000	13.5	88,000	9.4								
48	2400	0.460	224,000	22	184,000	19	130,000	15								
52	2600	0.540	246,000	28	214,000	25	168,000	21	114,000	18.5						
56	2800	0.626	268,000	36	242,000	32	202,000	29	156,000	24						
60	3000	0.718	290,000	45	268,000	41	234,000	37	193,000	33	148,000	27				
64	3200	0.816	312,000	54	294,000	52	264,000	47	230,000	42	188,000	37	142,000	31		
68	3400	0.922	334,000	66	318,000	62	294,000	58	262,000	51	224,000	48	181,000	42	141,000	35
72	3600	1.03	354,000	80	338,000	74	318,000	70	292,000	66	260,000	60	220,000	54	185,000	49
76	3800	1.15	376,000	94	362,000	90	346,000	84	320,000	78	292,000	74	258,000	68	224,000	62
80	4000	1.28	396,000	110			370,000	100	348,000	94	321,000	90	294,000	84	262,000	78
84	4200	1.41	418,000	130			394,000	120	374,000	110	354,000	110	326,000	105	298,000	96
88	4400	1.54	440,000	145			414,000	135	400,000	130	382,000	125	356,000	120	328,000	110
92	4600	1.69	460,000	165			438,000	160	426,000	155	410,000	150	384,000	140	364,000	135
96	4800	1.84	478,000	190			460,000	180	448,000	175	432,000	170	412,000	165	392,000	155
100	5000	2.00	500,000	220					470,000	200	456,000	195	440,000	190	420,000	180
104	5250	2.20	526,000	250					500,000	230	486,000	230	472,000	220	451,000	210
109	5500	2.42	552,000	290					528,000	270	516,000	270	502,000	260	488,000	250
114	5750	2.54	576,000	320							540,000	290	530,000	290	516,000	280
119	6000	2.87	604,000	380							568,000	350	562,000	350	550,000	340
124	6250	3.12	628,000	430									590,000	390	574,000	380
129	6500	3.38	650,000	480									620,000	450	610,000	410
134	6750	3.63	680,000	540											636,000	490
139	7000	3.91	704,000	590											666,000	500
149	7500	4.50	756,000	740												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
72	3600	1.03	141,000	41												
76	3800	1.15	187,000	56												
80	4000	1.28	230,000	72	157,000	62										
84	4200	1.41	266,000	88	200,000	74										
88	4400	1.54	300,000	110	240,000	92	174,000	74								
92	4600	1.69	338,000	125	278,000	110	218,000	96								
96	4800	1.84	368,000	150	318,000	135	260,000	120	199,000	98						
100	5000	2.00	400,000	175	352,000	160	300,000	145	242,000	125						
104	5250	2.20	434,000	200	394,000	190	346,000	180	294,000	160	240,000	140				
109	5500	2.42	470,000	240	434,000	230	388,000	220	340,000	195	292,000	180	240,000	155		
114	5750	2.54	498,000	270	464,000	260	428,000	250	390,000	230	342,000	210	274,000	190		
119	6000	2.87	536,000	330	506,000	310	468,000	300	430,000	280	386,000	260	342,000	240	296,000	220
124	6250	3.12	570,000	380	540,000	360	506,000	340	472,000	330	436,000	310	390,000	290	346,000	270
129	6500	3.38	598,000	430	574,000	410	540,000	390	512,000	380	476,000	350	436,000	340	396,000	320
134	6750	3.63	628,000	490	606,000	470	576,000	450	548,000	430	516,000	420	478,000	400	444,000	380
139	7000	3.91	656,000	550	636,000	530	612,000	510	584,000	490	554,000	470	522,000	460	484,000	430
149	7500	4.50	711,000	690	698,000	670	676,000	650	652,000	630	628,000	610	598,000	590	570,000	570
159	8000	5.11			754,000	830	738,000	810	718,000	780	696,000	760	670,000	730	646,000	720
169	8500	5.76			810,000	1000	796,000	980	774,000	950	760,000	930	740,000	910	716,000	890
179	9000	6.46			868,000	1200	852,000	1170	840,000	1160	822,000	1130	806,000	1110	784,000	1080
189	9500	7.20					910,000	1400	896,000	1380	880,000	1350	806,000	1330	852,000	1300
199	10000	7.98					970,000	1650	954,000	1620	940,000	1590	928,000	1570	912,000	1550

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
124	6250	3.12	302,000	240												
129	6500	3.38	352,000	300	308,000	270										
134	6750	3.63	400,000	350	360,000	330										
139	7000	3.91	418,000	410	412,000	390	328,000	340								
149	7500	4.50	538,000	550	501,000	530	430,000	470	356,000	420						
159	8000	5.11	618,000	700	588,000	680	526,000	630	456,000	570	312,000	450				
169	8500	5.76	696,000	870	668,000	840	612,000	800	550,000	740	478,000	620				
179	9000	6.46	766,000	1060	740,000	1030	692,000	990	638,000	940	520,000	820	396,000	690		
189	9500	7.20	832,000	1280	810,000	1250	768,000	1200	720,000	1140	614,000	1040	500,000	910	376,000	750
199	10000	7.98	898,000	1530	880,000	1490	840,000	1430	798,000	1390	704,000	1280	598,000	1150	484,000	1000

Double Inlet # 360" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.
			Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressur ⅞" Water .506 ozs. per sq. inch	
25	1400	0.157	101,000	4												
28	1600	0.205	148,000	7												
32	1800	0.259	189,000	11	93,600	7										
35	2000	0.320	226,000	16	118,000	11										
39	2200	0.387	260,000	21	197,000	18	115,000	12								
42	2400	0.460	288,000	28	238,000	24	169,000	20								
46	2600	0.540	318,000	37	276,000	32	218,000	28	148,000	24						
50	2800	0.626	348,000	46	311,000	42	262,000	37	202,000	31						
53	3000	0.718	376,000	58	348,000	51	304,000	48	250,000	42	191,000	36				
57	3200	0.816	401,000	70	380,000	66	342,000	60	296,000	54	242,000	48	184,000	40		
60	3400	0.922	432,000	86	410,000	80	380,000	74	310,000	70	290,000	62	234,000	54	183,000	46
64	3600	1.03	460,000	105	438,000	96	412,000	90	378,000	84	336,000	78	286,000	70	240,000	64
67	3800	1.15	486,000	120	470,000	115	448,000	110	414,000	100	378,000	96	334,000	88	290,000	82
71	4000	1.28	514,000	140			480,000	130	450,000	125	418,000	115	382,000	110	310,000	100
74	4200	1.41	540,000	165			510,000	150	484,000	145	458,000	140	422,000	130	386,000	125
78	4400	1.54	568,000	190			536,000	175	516,000	170	494,000	160	462,000	155	426,000	150
81	4600	1.69	598,000	210			568,000	210	552,000	200	530,000	190	498,000	180	470,000	175
85	4800	1.84	620,000	250			596,000	230	580,000	230	558,000	220	534,000	210	508,000	200
88	5000	2.00	648,000	280					608,000	260	592,000	250	570,000	240	544,000	230
93	5250	2.20	680,000	320					646,000	300	630,000	290	612,000	290	598,000	280
97	5500	2.42	714,000	370					682,000	350	668,000	350	650,000	340	632,000	330
102	5750	2.54	744,000	410							700,000	380	686,000	370	668,000	360
106	6000	2.87	782,000	490									728,000	450	712,000	440
111	6250	3.12	812,000	550									764,000	510	744,000	500
115	6500	3.38	846,000	620									802,000	580	798,000	570
119	6750	3.63	880,000	700											824,000	640
124	7000	3.91	912,000	770											862,000	720
133	7500	4.5	980,000	960												

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
64	3600	1.03	187,000	54												
67	3800	1.15	242,000	72												
71	4000	1.28	296,000	94	204,000	80										
74	4200	1.41	344,000	115	260,000	96										
78	4400	1.54	390,000	140	310,000	120	226,000	96								
81	4600	1.69	438,000	165	360,000	150	282,000	125								
85	4800	1.84	476,000	195	410,000	175	338,000	155	258,000	130						
88	5000	2.00	516,000	230	456,000	210	388,000	190	314,000	165						
93	5250	2.20	562,000	270	510,000	250	448,000	230	380,000	210	310,000	180				
97	5500	2.42	608,000	320	562,000	300	504,000	280	440,000	260	378,000	230	312,000	200		
102	5750	2.54	644,000	350	600,000	330	556,000	320	504,000	300	444,000	280	356,000	240		
106	6000	2.87	694,000	420	654,000	400	608,000	380	556,000	360	500,000	340	444,000	310	382,000	280
111	6250	3.12	738,000	500	700,000	470	656,000	440	610,000	420	564,000	400	516,000	380	448,000	350
115	6500	3.38	776,000	560	744,000	540	700,000	510	664,000	490	618,000	460	564,000	440	514,000	420
119	6750	3.63	812,000	630	784,000	610	748,000	580	708,000	560	668,000	540	620,000	510	574,000	490
124	7000	3.91	850,000	710	824,000	680	792,000	660	754,000	630	718,000	610	676,000	590	628,000	560
133	7500	4.50	924,000	890	902,000	860	874,000	840	844,000	810	812,000	790	776,000	760	738,000	740
141	8000	5.11			978,000	1070	956,000	1040	930,000	1010	900,000	980	868,000	950	836,000	930
150	8500	5.76			1,050,000	1290	1,030,000	1270	1,000,000	1240	982,000	1210	958,000	1170	928,000	1150
159	9000	6.46			1,120,000	2560	1,100,000	1520	1,090,000	1500	1,060,000	1460	1,040,000	1430	1,010,000	1400
168	9500	7.20					1,180,000	1820	1,160,000	1790	1,140,000	1750	1,120,000	1720	1,100,000	1690
177	10000	7.98					1,250,000	2140	1,230,000	2100	1,220,000	2060	1,200,000	2040	1,180,000	2000

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
111	6250	3.12	390,000	320												
115	6500	3.38	456,000	390	400,000	350										
119	6750	3.63	516,000	450	466,000	430										
124	7000	3.91	580,000	530	534,000	510	426,000	440								
133	7500	4.50	606,000	710	652,000	680	576,000	610	460,000	540						
141	8000	5.11	800,000	910	764,000	880	680,000	820	592,000	740	404,000	580				
150	8500	5.76	900,000	1120	864,000	1090	792,000	1030	710,000	960	542,000	810				
159	9000	6.46	990,000	1370	958,000	1340	896,000	1280	824,000	1210	672,000	1060	512,000	890		
168	9500	7.20	1,070,000	1650	1,050,000	1620	996,000	1550	932,000	1470	794,000	1340	646,000	1180	488,000	970
177	10000	7.98	1,160,000	1980	1,140,000	1930	1,090,000	1860	1,030,000	1800	912,000	1860	774,000	1400	628,000	1300

Double Inlet # 400" Steel Plate Fan—Design 1 **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure 1/8" Water .0722 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 1/4" Water .145 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 3/8" Water .217 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 1/2" Water .289 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 5/8" Water .361 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 3/4" Water .434 ozs. per sq. inch	H.P.	Volume C.F.M. Static Pressure 7/8" Water .506 ozs. per sq. inch	H.P.
22	1400	0.157	123,000	5												
25	1600	0.205	180,000	8												
29	1800	0.259	230,000	13	114,000	8										
32	2000	0.320	274,000	18	180,000	13										
35	2200	0.387	314,000	26	210,000	20	138,000	15								
38	2400	0.460	352,000	34	290,000	29	206,000	24								
41	2600	0.540	388,000	45	336,000	39	264,000	34	180,000	29						
45	2800	0.626	422,000	56	382,000	52	318,000	45	246,000	38						
48	3000	0.718	458,000	70	422,000	64	370,000	58	304,000	52	232,000	43				
51	3200	0.816	490,000	86	462,000	80	416,000	74	360,000	66	296,000	58	224,000	49		
54	3400	0.922	524,000	105	498,000	98	462,000	90	412,000	84	354,000	76	284,000	66	222,000	56
57	3600	1.03	558,000	125	532,000	115	502,000	110	458,000	105	408,000	96	346,000	86	292,000	76
61	3800	1.15	592,000	150	570,000	140	544,000	130	502,000	125	458,000	115	406,000	110	352,000	100
64	4000	1.28	624,000	170			582,000	160	548,000	150	508,000	140	464,000	130	414,000	125
67	4200	1.41	658,000	200			618,000	190	588,000	175	550,000	170	512,000	160	468,000	150
70	4400	1.54	690,000	230			652,000	210	628,000	210	600,000	195	560,000	190	518,000	180
73	4600	1.69	724,000	260			690,000	250	670,000	240	644,000	230	604,000	220	572,000	210
76	4800	1.84	752,000	300			722,000	280	704,000	270	680,000	270	648,000	260	616,000	240
80	5000	2.00	788,000	340					738,000	320	718,000	310	692,000	290	660,000	280
84	5250	2.20	826,000	390					786,000	370	764,000	360	744,000	350	714,000	340
87	5500	2.42	868,000	460					830,000	430	812,000	420	790,000	410	766,000	400
91	5750	2.54	904,000	500							850,000	460	834,000	450	810,000	440
95	6000	2.87	950,000	590							892,000	550	884,000	540	866,000	530
99	6250	3.12	988,000	670									930,000	620	902,000	600
103	6500	3.38	1,030,000	750									976,000	710	958,000	690
107	6750	3.63	1,070,000	850											1,000,300	780
111	7000	3.91	1,110,000	940											1,050,000	880
119	7500	4.50	1,190,000	1160												

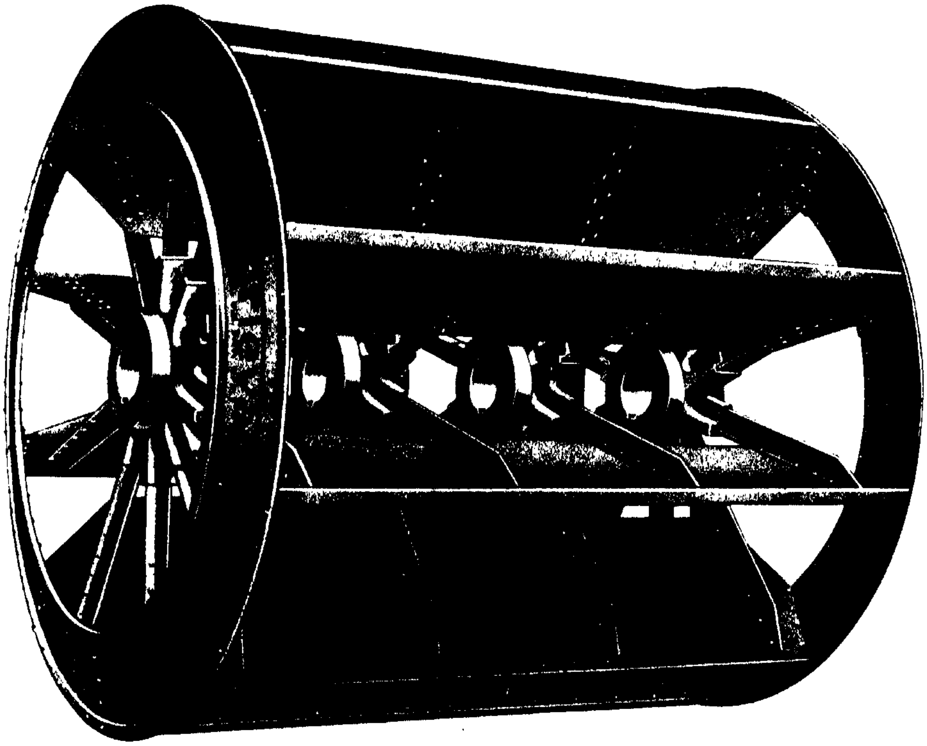
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.30 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch	
57	3600	1.03	228,000	64												
61	3800	1.15	294,000	88												
64	4000	1.28	360,000	110	248,000	96										
67	4200	1.41	418,000	140	316,000	115										
70	4400	1.54	474,000	170	376,000	145	274,000	115								
73	4600	1.69	532,000	195	438,000	180	344,000	150								
76	4800	1.84	578,000	240	498,000	210	410,000	190	312,000	155						
80	5000	2.00	628,000	270	554,000	250	472,000	230	382,000	195						
84	5250	2.20	682,000	320	618,000	300	546,000	280	460,000	250	376,000	220				
87	5500	2.42	740,000	380	682,000	360	612,000	340	536,000	310	460,000	280	378,000	250		
91	5750	2.54	784,000	430	728,000	410	674,000	390	612,000	360	538,000	340	432,000	300		
95	6000	2.87	844,000	520	794,000	490	738,000	460	676,000	440	608,000	410	538,000	380	464,000	340
99	6250	3.12	896,000	600	850,000	570	796,000	540	742,000	510	686,000	480	614,000	460	546,000	420
103	6500	3.38	942,000	680	902,000	650	850,000	620	806,000	600	750,000	560	680,000	540	624,000	510
107	6750	3.63	988,000	770	952,000	740	908,000	700	862,000	680	810,000	660	752,000	620	698,000	590
111	7000	3.91	1,030,000	870	1,000,000	830	960,000	800	918,000	770	870,000	740	820,000	720	762,000	680
119	7500	4.50	1,120,000	1080	1,100,000	1050	1,060,000	1020	1,020,000	980	988,000	960	942,000	930	896,000	890
127	8000	5.11			1,190,000	1300	1,160,000	1270	1,130,000	1230	1,090,000	1190	1,050,000	1150	1,020,000	1130
135	8500	5.76			1,270,000	1570	1,250,000	1540	1,220,000	1500	1,200,000	1470	1,160,000	1430	1,130,000	1390
143	9000	6.46			1,360,000	1890	1,340,000	1850	1,320,000	1820	1,290,000	1780	1,270,000	1740	1,230,000	1700
151	9500	7.20					1,430,000	2220	1,410,000	2180	1,400,000	2120	1,360,000	2100	1,340,000	2060
159	10000	7.98					1,520,000	2600	1,500,000	2540	1,580,000	2500	1,460,000	2480	1,434,000	2440

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
99	6250	3.12	474,000	380												
103	6500	3.38	554,000	470	484,000	430										
107	6750	3.63	628,000	550	566,000	520										
111	7000	3.91	704,000	650	648,000	620	518,000	530								
119	7500	4.50	846,000	860	792,000	830	676,000	720	560,000	660						
127	8000	5.11	972,000	1100	926,000	1060	828,000	990	718,000	900	492,000	700				
135	8500	5.76	1,090,000	1370	1,050,000	1320	960,000	1260	864,000	1170	758,000	980				
143	9000	6.46	1,200,000	1670	1,160,000	1630	1,090,000	1550	1,000,000	1470	818,000	1290	622,000	1080		
151	9500	7.20	1,310,000	2000	1,280,000	1970	1,210,000	1990	1,130,000	1790	964,000	1630	786,000	1430	592,000	1190
159	10000	7.98	1,410,000	2400	1,380,000	2340	1,320,000	2260	1,260,000	2200	1,100,000	2020	940,000	1810	762,000	1570

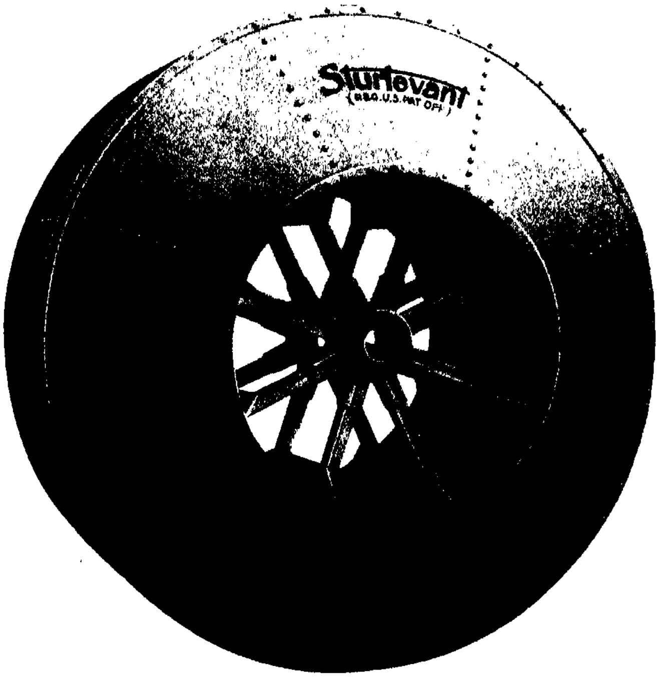
STEEL PLATE FANS

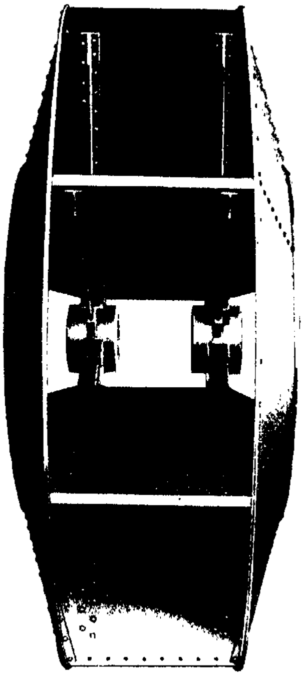
Design 2

Dimensions, Capacities, Horse Powers

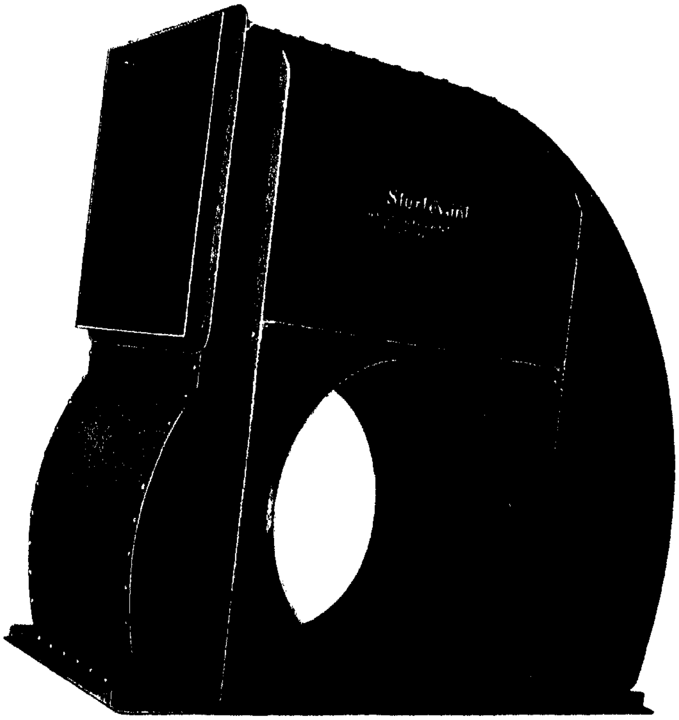


Double width wheel for Sturtevant High Speed Steel Plate Fan

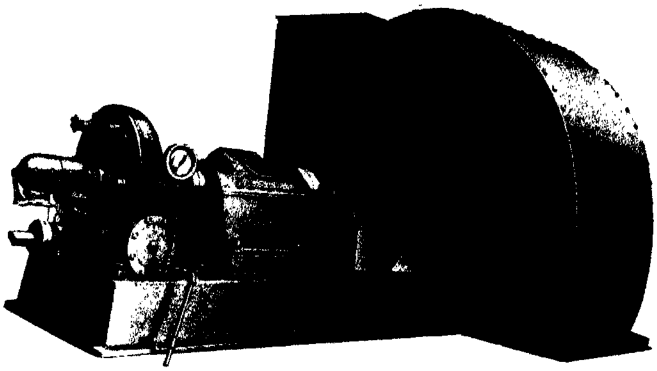




Wheel of Sturtevant High Speed Steel Plate Fan. - Note the angle irons which attach blades to side plates, and reinforcing strips around inlet and periphery of wheel



Housing of Sturtevant High Speed Steel Plate Fan



Steel Plate Fan Driven through Sturtevant Gears by Sturtevant Turbine

STEEL PLATE FAN—DESIGN 2

SPECIFICATIONS

There shall be furnished a No.. . ... Design 2, Sturtevant Steel Plate Fan. It shall be made (single or double)...... inlet, (single or double)........ ...width, (right or left). .. ...hand,........discharge, and three-quarter housing. The wheel shall be not less than......inches diameter,......inches wide. The outlet shall be ... inches x . ....inches. The diameter of the inlet shall be.. .. inches. The total height of the fan housing shall be......inches. The width in direction of the shaft. ....inches, and the length transverse to shaft......inches. The fan shall have a capacity of......cubic feet per minute against a resistance of . inches water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately......R. P. M. requiring approximately........B. H. P.

Housing. The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The outlet shall be rectangular in shape and shall consist of angle irons bolted to the housing and arranged for connection to a discharge duct.

Wheels. The blades and side plate of the wheel shall be refined steel plate. The side plate shall be reinforced around the inlet and periphery with reinforcing rings. The outer edges of all blades shall be reinforced with angle irons. Both blades and side plates shall be punched to templates to insure accuracy. To give proper strength the blades shall be attached to the side plates by means of angle irons. Single width wheels shall have two spiders; and double width wheels, four spiders. The spiders shall consist of steel T-arms cast into the hub. Hubs shall be accurately bored and fitted with key ways and set screws. The complete wheel shall be supported from two pedestal type bearings entirely independent of the fan housing.

Bearings. The bearings shall be of rigid type, and to insure an ample supply of oil to the surfaces, shall be provided with three brass rings and a carefully grooved cap. To prevent oil from escaping from the ends of the bearings and to return it to the reservoir, both upper and lower boxes shall be provided with suitable oil grooves. A sight oil gauge shall be located in the lower half of the bearing to indicate the height of the oil in the reservoir. An overflow to prevent overfilling shall also be provided. The bearing shall be designed with water passages so that cooling water may be circulated when necessary.

Shaft. The shaft shall be made from a steel forging turned, splined, and ground to exact finish.

STEEL PLATE FAN—DESIGN 2

EXPLANATION OF SPECIFICATION REQUIREMENTS

Noise. These fans are designed primarily for the slower speeds and therefore have comparatively large diameter wheels. This makes it possible to obtain the necessary tip speed to develop the desired pressures without using excessive rotative speeds. Also, on account of the peculiar construction of the fan wheel, the air velocities through the fan are low and uniform. This slow rotative speed, combined with the low air velocities, results in practically noiseless operation under ordinary conditions.

Structural Design. The satisfactory operation of a fan, from the standpoint of strength and freedom from distortion, is determined entirely by the design of the fan wheel and of the bearings since the construction of the housing is comparatively simple and means only the proper distribution of material to resist the air pressure within the casing. In this fan wheel all of the principal members are radial, are of simple design, and are therefore best suited to resist the stresses tending to wreck or distort the fan. The fan blades are flat and are supported on at least two spiders properly located on the float so as to equalize the loading on the float. The floats are also reinforced at the tip so as to prevent distortion at this point.

The spiders are built up of steel T-arms cast into heavy semi-steel hubs and are carefully fitted and keyed to the fan shaft. The spiders are secured in proper position by steel side plates on the sides of the floats. These side plates are secured to the floats by rolled steel angles and are further reinforced by steel bands at both the inside and outside diameters. After the wheel has been assembled, it is carefully balanced to insure against vibration when in operation. Throughout the construction of this wheel hot riveting is used exclusively, thereby insuring the complete filling of all holes and preventing the movement of any of the parts with respect to one another.

The bearings used in connection with this fan are of heavy, rigid, ring-oiling type and are mounted on cast-iron pedestals which are set independently of the fan housing. This insures a secure bearing for the fan wheel and prevents any vibration which might be caused by connection to the fan casing. The bearing pedestals are made as low as permissible to obviate any possibility of vibration which is usually incidental to high supports. The bearings are lined with the highest grade babbitt bearing metal and are scraped to exactly fit the shaft which insures perfect operation at the start and makes it unnecessary to run the bearings into shape.

Steel Plate Fan—Design 2

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Steel Plate Fan—Design 2

APPROXIMATE WEIGHTS

Size Wheel Diam. Feet	Single Width	Double Width
3		
3½		3500
4	1900	4200
4½	2250	4800
5	2650	5500
5½	3100	6200
6	4000	7000
6½	4500	7800
7	5200	8600
7½	5800	9500
8	6900	10400
8½	7650	11200
9	8350	12100
9½	9550	13000
10	10400	13900
11	12500	15800
12	14000	17700

Single Inlet

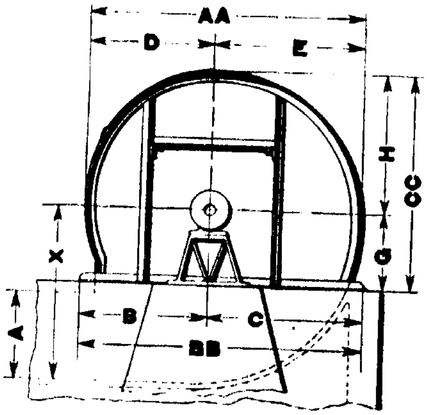
Steel Plate Fan—Design 2

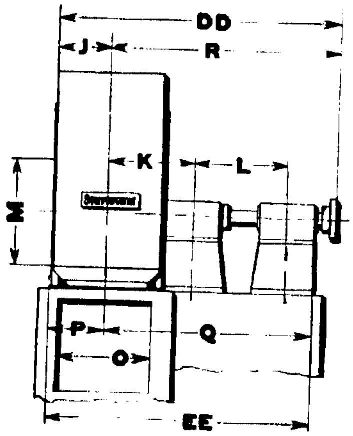
Single Width

¾ Housing

Bottom Horizontal Discharge

Overhung Wheel





Fan Size	A	B	C	D	E	G	H	J	K	L	M	O	P	Q	R	X	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Fan	Ped.
4 ft.	22	28¼	37½	29	35	17	32	12¼	20¾	20¾	24⅜	20	14¾	47	53½	43	64	66	49	65¾	61¼	48	2 13/16	⅝	⅝
4½ ft.	24¾	32	41½	32⅝	39⅜	18½	36	13½	22	22	27⅜	22½	16	49½	56	47¼	72	73½	54½	69½	65½	54	2 13/16	⅝	⅝
5 ft.	27½	35	45¼	36⅛	43¾	20	39⅞	14¾	23½	23½	30⅜	25	17¼	52	58½	51½	79½	80¾	59⅞	73¼	69¼	60	2 15/16	¾	¾
5½ ft.	30¼	38¼	49¾	39¾	48	21½	43⅞	16	26	26	33⅜	27½	18½	58⅞	66½	55¾	87¾	88	65⅜	82½	77⅜	66	3 7/16	¾	¾
6 ft.	33	41	53¾	43⅜	52⅜	23½	47⅞	17¼	27¼	27¼	36½	30	19¾	61⅜	69	60½	95¾	94¾	71⅜	86¼	81⅛	72	3 7/16	¾	¾
6½ ft.	35¾	45¼	59½	46⅞	56⅝	26	51¾	18½	30	30	39½	32½	22½	66⅞	74½	65¾	103½	105¼	77¾	93	89⅜	78	3 7/16	¾	¾
7 ft	38½	49	63¾	50⅝	61⅛	27½	55⅞	19¾	31¼	31¼	42½	35	23¾	69⅜	77	70	111¾	112¾	83⅜	96¾	93⅛	84	3 15/16	¾	⅞
7½ ft.	41¼	52¼	67¾	54⅛	65⅜	29	59¾	21	32½	32½	45½	37½	25	71⅞	79½	74¼	119½	120	88¾	100½	96⅞	90	3 15/16	¾	⅞
8 ft.	44	55¼	71¾	57¾	69⅞	30½	63¾	22¼	35¼	35¼	48½	40	26¼	79	86¾	78	127½	127	94¼	109	105¼	96	4½	¾	⅞
8½ ft.	46¾	58¼	76	61¼	74	32	67⅝	24	36½	36½	51½	42½	27½	81½	89¼	82¾	135¼	134¼	99⅝	113¼	109	102	4½	¾	⅞
9 ft.	49½	61¾	80	64⅞	78⅝	33½	71⅝	25¼	37¾	37¾	54½	45	28¾	84	91¾	87	143¼	141¾	105⅛	117	112¾	108	5	¾	⅞
9½ ft.	52¼	64¾	84¼	68½	82¾	35	75⅝	26½	39	39	57½	47½	30	86½	94¼	91¼	151¼	149	110⅝	120¾	116½	114	5	¾	⅞
10 ft.	55	67¾	88¼	72	87	36½	79½	27¾	42½	42½	60½	50	31¼	95¾	103½	95½	159	156	116	131¼	127	120	5½	¾	⅞
11 ft.	60½	74	96½	79¼	95¾	39½	87½	30¼	45	45	66½	55	33¾	100¾	108½	104	175	170½	127	138¾	134½	132	6	¾	1
12 ft.	66	80½	105	86¾	104⅜	42½	95⅜	32¾	47½	47½	72½	60	36¼	105¾	113½	112½	191⅛	185½	137⅞	146¼	142	144	6	¾	1

Single Inlet

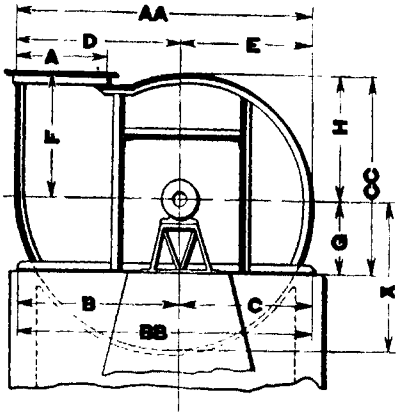
Steel Plate Fan—Design 2

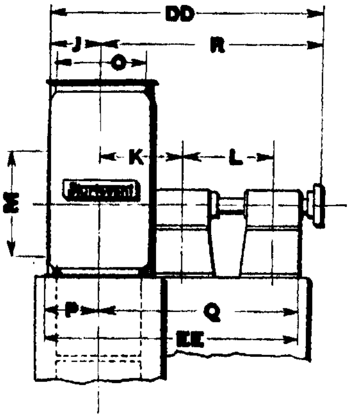
Single Width

¾ Housing

Up Blast Discharge

Overhung Wheel





Fan Size	A	B	C	D	E	F	G	H	J	K	L	M	O	P	Q	R	X	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Diameter	Anchor Bolts	
																									Fan	Pedestals
4 ft.	22½	39¼	34	38	32	28¾	17	29	12¼	20¾	20¾	24⅝	20½	14¾	47	53½	35	70	73¼	46	65¾	61¾	48	2 15/16	⅝	⅝
4½ ft.	25¼	43¾	38	42¼	36	32½	18½	32⅝	13½	22	22	27⅝	23	16	49½	56	39⅜	78¾	81¾	51⅛	69½	65½	54	2 15/16	⅝	⅝
5 ft.	28	48	41½	47⅞	39⅞	36	20	36⅛	14¾	23¼	23¼	30⅝	25½	17¼	52	58½	43⅞	87½	89½	56⅛	73¼	69¼	60	2 15/16	¾	¾
5½ ft.	30¾	52½	45¼	52⅝	43⅞	39½	21½	39¾	16	26	26	33⅞	28	18½	58¾	66½	48	96	97¾	61¼	82½	77⅞	66	3 7/16	¾	¾
6 ft.	33½	56½	49	56⅞	47⅞	43¼	23½	43⅜	17¼	27¼	27¼	36½	30½	19¾	61⅞	69	52⅜	104¾	105½	66⅞	86¼	81⅝	72	3 7/16	¾	¾
6½ ft.	36¼	62½	54	61½	51¾	46¾	26	46⅞	18½	30	30	39½	33	22½	66⅞	74½	56⅝	113¼	116½	72⅞	93	89⅜	78	3 7/16	¾	¾
7 ft.	39	67	58	66⅜	55⅞	50½	27½	50⅝	19¾	31¼	31¼	42½	35½	23¾	69⅞	77	61⅛	122¼	125	78⅛	96¾	93⅛	84	3 15/16	¾	⅞
7½ ft.	41¾	71¼	61¾	71	59¼	54	29	54⅛	21	32½	32½	45½	38	25	71⅞	79½	65⅝	130¾	133	83⅛	100½	96⅞	90	3 15/16	¾	⅞
8 ft.	44½	75¾	65½	75¼	63¾	57½	30½	57¾	22¼	35¼	35¼	48½	40½	26¼	79	86¾	69¾	139½	141¼	88¼	109	105¼	96	4½	¾	⅞
8½ ft.	47¼	80	69	80⅜	67⅜	61¼	32	61¼	24	36½	36½	51½	43	27½	81½	89¼	74	148	149	93¼	113¼	109	102	4½	¾	⅞
9 ft.	50	84¼	73	85⅛	71⅝	64¾	33½	64⅞	25¼	37¾	37¾	54½	45½	28¾	84	91¾	78¼	156¾	157¼	98⅜	117	112¾	108	5	¾	⅞
9½ ft.	52¾	88¼	76¾	89⅞	75⅝	68½	35	68½	26½	39	39	57½	48	30	86½	94¼	82½	165½	165½	103½	120¾	116½	114	5	¾	⅞
10 ft.	55½	93	80¼	94½	79½	72	36½	72	27¾	42½	42½	60½	50½	31¼	95¾	103½	87	174	173¼	108½	131¼	127	120	5½	¾	⅞
11 ft.	61	102	87¾	104	87½	79¼	39½	79¼	30¼	45	45	66½	55½	33¾	100¾	108½	95¾	191½	189¼	118¼	138¾	134½	132	6	¾	1
12 ft.	66½	110¾	95¾	113¼	95⅜	86½	42½	86¾	32¾	47½	47½	72½	60½	36¼	105¾	113½	104¼	208¾	206	128⅞	146¼	142	144	6	¾	1

Single Inlet

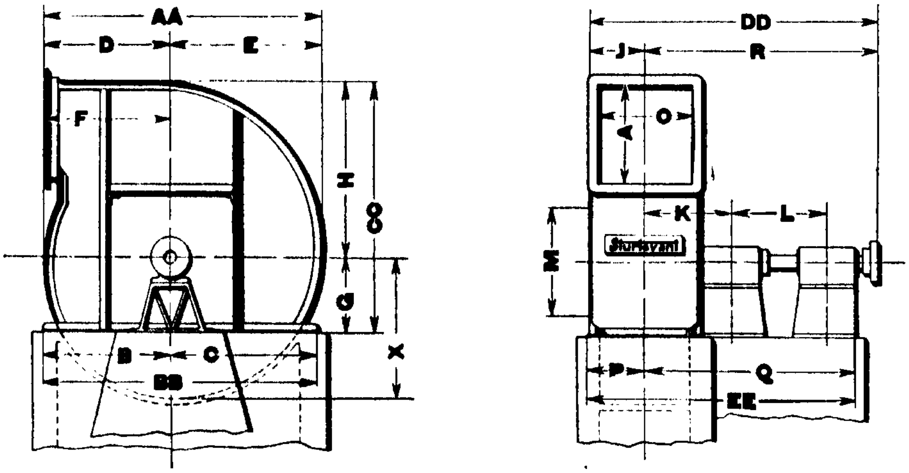
Steel Plate Fan—Design 2

Single Width

¾ Housing

Top Horizontal Discharge

Overhung Wheel



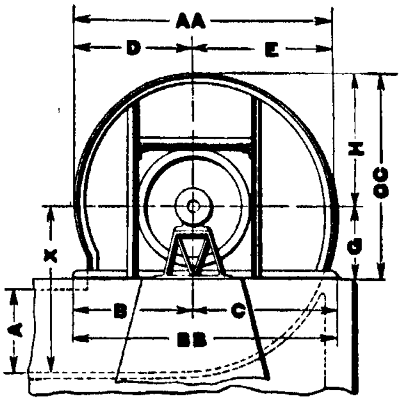
Fan Size	A	B	C	D	E	F	G	H	J	K	L	M	O	P	Q	R	X	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Pedestals
4 ft.	22½	30¾	35¼	29	35	28¾	17	38	12¼	20¾	20¾	24⅜	20½	14¾	47	53½	32	64	66½	55	65¾	61¾	48	2 13/16	⅝	⅝
4½ ft.	25¼	34	39¼	32⅝	39⅜	32½	18½	42¾	13½	22	22	27⅜	23	16	49½	56	36	72	73¾	61¼	69½	65½	54	2 15/16	⅝	⅝
5 ft.	28	37½	43¼	36⅛	43⅜	36	20	47⅞	14¾	23¼	23¼	30⅜	25½	17¼	52	58½	39⅛	79¼	81¼	67⅜	73¼	69¼	60	2 15/16	¾	¾
5½ ft.	30¾	40¾	47¼	39¼	48	39½	21½	52⅛	16	26	26	33⅜	28	18½	58⅞	66½	43⅛	87¾	88½	73⅜	82½	77⅛	66	3 7/16	¾	¾
6 ft	33½	44	51½	43⅜	52⅜	43¼	23½	56⅞	17¼	27¼	27¼	36½	30½	19¾	61⅜	69	47⅛	95¾	95½	80⅜	86¼	81⅛	72	3 7/16	¾	¾
6½ ft.	36¼	48¾	56¾	46⅞	56⅜	46¾	26	61½	18¼	30	30	39½	33	22½	66⅞	74½	51¾	103½	105¼	87½	93	89⅜	78	3 7/16	¾	¾
7 ft.	39	52¼	61¼	50⅜	61⅛	50½	27½	66⅜	19¾	31¼	31¼	42½	35½	23¾	69⅜	77	55⅛	111¾	113½	93⅞	96¾	93⅛	84	3 15/16	¾	⅞
7½ ft.	41¾	55¾	65	54⅛	65⅜	54	29	71	21	32½	32½	45½	38	25	71⅞	79½	59¾	119½	120¼	100	100½	96⅞	90	3 15/16	¾	⅞
8 ft.	44½	59	69	57¼	69¾	57½	30½	75¾	22¼	35¼	35¼	48½	40½	26¼	79	86¼	63¾	127½	128	106¼	109	105¼	96	4½	¾	⅞
8½ ft.	47¼	62¼	72¼	61¼	74	61¼	32	80⅜	24	36¼	36¼	51½	43	27½	81½	89¼	67⅜	135¼	135	112⅜	113¼	109	102	4½	¾	⅞
9 ft.	50	65½	76¾	64⅞	78⅜	64¾	33½	85⅛	25¼	37¾	37¾	54½	45½	28¾	84	91¼	71⅜	143¼	142¼	118⅝	117	112¾	108	5	¾	⅞
9½ ft.	52¾	69	81	68½	82¼	68½	35	89⅞	26½	39	39	57½	48	30	86½	94½	75⅜	151¼	150	124⅞	120¾	116½	114	5	¾	⅞
10 ft.	55½	72¼	84⅜	72	87	72	36½	94½	27¾	42½	42½	60½	50½	31¼	95¼	103½	79½	159	157	131	131¼	127	120	5½	¾	⅞
11 ft.	61	79	92¾	79¼	95⅜	79¼	39½	104	30¼	45	45	66½	55½	33¼	100¾	108¼	87½	175	171¾	143½	138¾	134½	132	6	¾	1
12 ft.	66½	85¼	100¼	86⅜	104⅜	86½	42½	113¾	32¾	47½	47½	72½	60½	36¼	105¾	113½	95⅜	190¾	186½	155⅞	146¼	142	144	6	¾	1

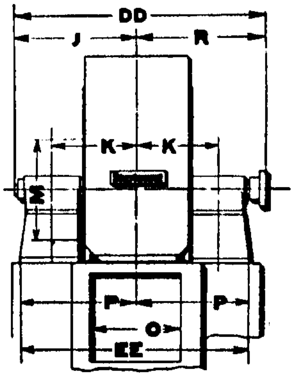
Double Inlet

Steel Plate Fan—Design 2

Single Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





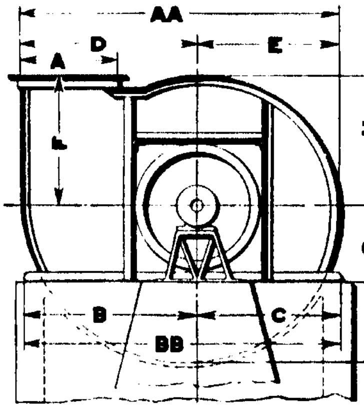
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																						Fan	Pedestal
4 ft.	22	28¾	37¼	29	35	17	32	29½	20¾	24	20	27¾	32¾	43	64	66	49	62¼	55½	48	2 15/16	⅝	⅝
4½ ft.	24¾	32	41½	32⅜	39⅛	18½	36	30⅜	22	27	22½	29	34	47½	72	73½	54½	64¾	58	54	2 15/16	⅝	⅝
5 ft.	27½	35	45¼	36⅛	43⅝	20	39⅞	32	23¾	30	25	30½	35½	51½	79¾	80¾	59⅞	67¼	61	60	2 15/16	¾	¾
5½ ft.	30¼	38¼	49¼	39¼	48	21½	43⅞	36⅛	26	33	27½	34¾	40½	55¾	87¼	88	65⅝	76⅝	69½	66	3 7/16	¾	¾
6 ft.	33	41	53¾	43⅝	52⅝	23½	47⅞	37⅝	27¼	36	30	36¼	41¾	60½	95¾	94¾	71⅜	79⅛	72½	72	3 7/16	¾	¾
6½ ft.	35¾	45¾	59½	46⅞	56⅝	26	51⅜	40⅛	30	39	32½	39¼	44½	65¾	103½	105¼	77¾	84⅝	78½	78	3 7/16	¾	¾
7 ft.	38½	49	63¾	50⅜	61⅛	27½	55⅞	41¾	31¼	42	35	40¾	45¾	70	111¾	112¾	83⅜	87½	81½	84	3 15/16	¾	⅞
7½ ft.	41¼	52¼	67¾	54⅛	65⅜	29	59¾	43	32½	45	37½	42¼	47	74¼	119½	120	88¾	90	84½	90	3 15/16	¾	⅞
8 ft.	44	55¼	71¾	57¼	69¾	30½	63¾	47¾	35¼	48	40	46¾	51½	78½	127½	127	94½	99¼	93½	96	4½	¾	⅞
8½ ft.	46¾	58¼	76	61¼	74	32	67⅝	49	36½	51	42½	48	52¾	82¾	135¼	134½	99⅜	101¾	96	102	4½	¾	⅞
9 ft.	49½	61¾	80	64⅞	78⅜	33½	71⅝	50¼	37¾	54	45	49½	54	87	143¼	141¾	105⅛	104¼	99	108	5	¾	⅞
9½ ft.	52¼	64¾	84¼	68½	82⅞	35	75⅝	51½	39	57	47½	51	55¼	91¼	151¼	149	110⅝	106¾	102	114	5	¾	⅞
0 ft.	55	67¾	88¼	72	87	36½	79½	57½	42¼	60	50	57	61	95½	159	156	116	118½	114	120	5½	¾	⅞
1 ft.	60½	74	96½	79¼	95¼	39½	87½	60¼	45	66	55	59¾	63½	104	175	170½	127	123¾	119½	132	6	¾	1
2 ft.	66	80½	105	86⅜	104⅜	42½	95⅜	62¾	47½	72	60	62¾	66	112½	190¾	185½	137⅞	128¾	125½	144	6	¾	1

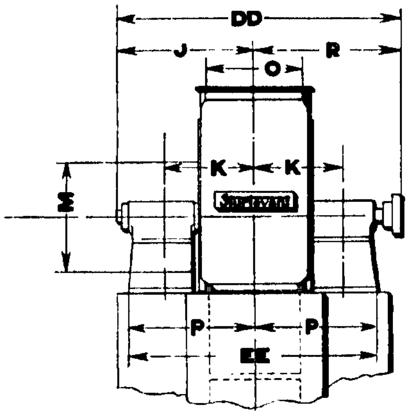
Double Inlet

Steel Plate Fan—Design 2

Single Width

¾ Housing **Up Blast Discharge** **Overhung Pulley**





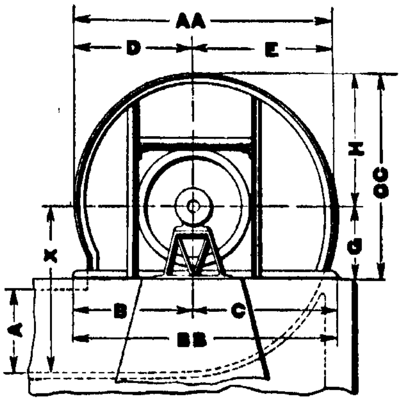
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																							Fan	Pedestal
4 ft.	22½	39¼	34	38	32	28¾	17	29	29½	20¾	24	20½	27¾	32¼	35	70	73¼	46	62¼	55½	48	2 15/16	⅝	⅝
4½ ft.	25¼	43¾	38	42¾	36	32¼	18½	32⅝	30¾	22	27	23	29	34	39⅝	78¾	81¾	51⅛	64¼	58	54	2 15/16	⅝	⅝
5 ft.	28	48	41½	47¼	39⅞	36	20	36⅛	32	23¼	30	25½	30½	35¼	43⅝	87¼	89½	56⅛	67¼	61	60	2 15/16	¾	¾
5½ ft.	30¾	52½	45¼	52⅛	43⅞	39½	21⅝	39¾	36⅛	26	33	28	34¾	40½	48	96	97¾	61¼	76⅝	69½	66	3 7/16	¾	¾
6 ft.	33½	56½	49	56⅞	47⅞	43¼	23½	43⅜	37⅜	27¼	36	30½	36¼	41¾	52⅜	104¾	105½	66⅞	79⅛	72½	72	3 7/16	¾	¾
6½ ft.	36¼	62½	54	61½	51¾	46¼	26	46⅞	40⅛	30	39	33	39¼	44½	56⅜	113¼	116½	72⅞	84⅝	78½	78	3 7/16	¾	¾
7 ft.	39	67	58	66⅜	55⅞	50½	27½	50⅝	41¾	31¼	42	35½	40¾	45¾	61⅛	122¼	125	78⅛	87½	81½	84	3 15/16	¾	⅞
7½ ft.	41¾	71¼	61¾	71	59¾	54	29	54⅛	43	32½	45	38	42¼	47	65⅜	130¾	133	83⅛	90	84½	90	3 15/16	¾	⅞
8 ft.	44½	75¾	65½	75¼	63¾	57½	30½	57¾	47¾	35¼	48	40½	46¾	51½	69⅞	139½	141¼	88¼	99¼	93½	96	4½	¾	⅞
8½ ft.	47¼	80	69	80⅜	67⅝	61⅛	32	61¼	49	36½	51	43	48	52¾	74	148	149	93¼	101¾	96	102	4½	¾	⅞
9 ft.	50	84¼	73	85¼	71⅝	64¾	33½	64⅞	50¼	37¾	54	45½	49½	54	78⅛	156¼	157¼	98⅛	104¼	99	108	5	¾	⅞
9½ ft.	52¾	88¾	76¾	89⅞	75⅝	68½	35	68½	51½	39	57	48	51	55¼	82¾	165½	165½	103½	106¼	102	114	5	¾	⅞
10 ft.	55½	93	80¼	94½	79½	72	36½	72	57½	42½	60	50½	57	61	87	174	173¼	108½	118½	114	120	5½	¾	⅞
11 ft.	61	102	87¾	104	87½	79¼	39½	79¼	60¼	45	66	55½	59¾	63½	95¾	191½	189¾	118¾	123¾	119½	132	6	¾	1
12 ft.	66½	110¾	95¼	113¾	95⅜	86½	42½	86⅝	62¾	47⅛	72	60½	62¼	66	104⅛	208¼	206	128⅜	128¾	125½	144	6	¾	1

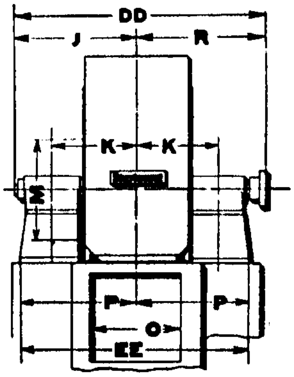
Double Inlet

Steel Plate Fan—Design 2

Single Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





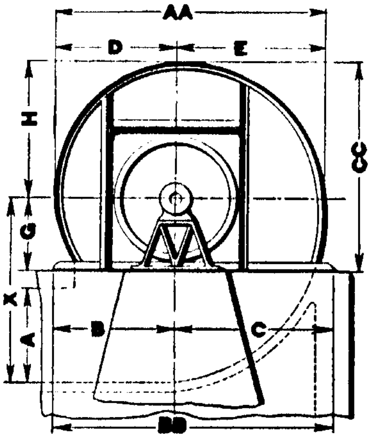
Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																						Fan	Pedestal
4 ft.	22	28¾	37¼	29	35	17	32	29½	20¾	24	20	27¾	32¾	43	64	66	49	62¼	55½	48	2 11/16	⅝	⅝
4½ ft.	24¾	32	41½	32⅝	39⅞	18½	36	30¾	22	27	22½	29	34	47½	72	73½	54½	64¾	58	54	2 11/16	⅝	⅝
5 ft.	27½	35	45¼	36⅛	43⅝	20	39⅞	32	23¼	30	25	30½	35½	51½	79¾	80¾	59⅞	67¼	61	60	2 15/16	¾	¾
5½ ft.	30¼	38¼	49¾	39¼	48	21½	43⅞	36⅛	26	33	27½	34¾	40½	55¾	87¾	88	65⅜	76⅜	69½	66	3 7/16	¾	¾
6 ft.	33	41	53¾	43⅞	52⅞	23½	47⅞	37⅜	27¼	36	30	36¼	41¾	60½	95¾	94¾	71⅜	79⅛	72½	72	3 7/16	¾	¾
6½ ft.	35¾	45¾	59½	46⅞	56⅝	26	51⅜	40⅛	30	39	32½	39¼	44½	65¾	103½	105¼	77¾	84⅝	78½	78	3 7/16	¾	¾
7 ft.	38½	49	63¾	50⅜	61⅛	27½	55⅞	41¾	31¼	42	35	40¾	45¾	70	111¾	112¾	83⅜	87½	81½	84	3 15/16	¾	⅞
7½ ft.	41¼	52¼	67¾	54⅛	65⅜	29	59¾	43	32½	45	37½	42¼	47	74¼	119½	120	88¾	90	84½	90	3 15/16	¾	⅞
8 ft.	44	55¼	71¾	57¼	69¾	30½	63¾	47¾	35¼	48	40	46¾	51½	78½	127½	127	94¼	99¼	93½	96	4½	¾	⅞
8½ ft.	46¾	58¼	76	61¼	74	32	67⅝	49	36½	51	42½	48	52¾	82¾	135¼	134¼	99⅜	101¼	96	102	4½	¾	⅞
9 ft.	49½	61¾	80	64⅞	78⅜	33½	71⅝	50¼	37¾	54	45	49½	54	87	143¼	141¾	105⅛	104¼	99	108	5	¾	⅞
9½ ft.	52¼	64¾	84¼	68½	82¾	35	75⅜	51½	39	57	47½	51	55¼	91¼	151¼	149	110⅝	106¾	102	114	5	¾	⅞
0 ft.	55	67¾	88¼	72	87	36½	79½	57½	42¼	60	50	57	61	95½	159	156	116	118½	114	120	5½	¾	⅞
1 ft.	60½	74	96½	79¼	95¼	39½	87½	60¼	45	66	55	59¾	63½	104	175	170½	127	123¾	119½	132	6	¾	1
2 ft.	66	80½	105	86⅞	104⅞	42½	95⅞	62¾	47½	72	60	62¾	66	112½	190¾	185½	137⅞	128¾	125½	144	6	¾	1

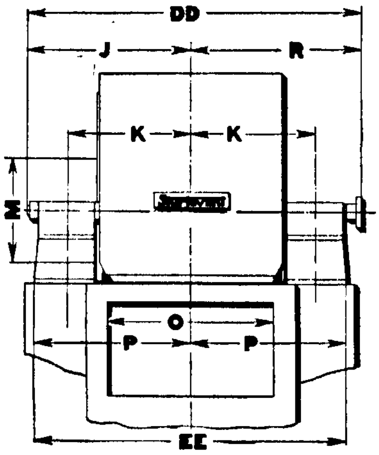
Double Inlet

Steel Plate Fan—Design 2

Double Width

¾ Housing **Bottom Horizontal Discharge** **Overhung Pulley**





Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																						Fan	Pedestal
4 ft.	22	28¾	37½	29	35	17	32	39½	30¾	24	40	37¾	42¾	43	64	66	49	82¼	75½	48	2 13/16	⅝	⅝
4½ ft.	24¾	32	41½	32⅝	39⅜	18½	36	42	33¼	27	45	40¼	45¼	47½	72	73½	54½	87¼	80½	54	2 13/16	⅝	⅝
5 ft.	27¼	35	45¾	36⅛	43⅜	20	39⅞	44½	35¾	30	50	43	47¾	51½	79¾	80¾	59⅞	92¼	86	60	2 13/16	¾	¾
5½ ft.	30¼	38¼	49¾	39⅞	48	21½	43⅛	49⅜	39¾	33	55	48½	54¼	55⅜	87¾	88	65⅜	104⅛	97	66	3 7/16	¾	¾
6 ft.	33	41	53¾	43⅝	52⅝	23½	47⅛	52⅜	42½	36	60	51¼	56¾	60½	95¾	94¾	71⅜	109⅛	102½	72	3 7/16	¾	¾
6½ ft.	35¾	45⅞	59½	46⅞	56⅝	26	51¾	56⅝	46¼	39	65	55¼	60¾	65⅞	103½	105¼	77¾	117⅛	111	78	3 7/16	¾	¾
7 ft.	38½	49	63¾	50⅝	61⅛	27½	55⅛	59¼	48¾	42	70	58¼	63¼	70	111¾	112¾	83⅜	122½	116½	84	3 15/16	¾	⅞
7½ ft.	41¼	52¼	67¼	54⅛	65⅜	29	59¾	61¼	51½	45	75	61	65¾	74¼	119½	120	88¾	127½	122	90	3 15/16	¾	⅞
8 ft.	44	55¼	71¼	57¾	69⅞	30½	63¾	67¾	55½	48	80	66¾	71½	78½	127½	127	94¼	139¼	133½	96	4½	¾	⅞
8½ ft.	46¾	58¼	76	61¼	74	32	67⅜	70¼	57⅞	51	85	69¼	74	82¾	135¼	134¼	99⅝	144¼	138½	102	4½	¾	⅞
9 ft.	49½	61¾	80	64⅞	78⅜	33½	71⅝	72⅜	60¼	54	90	72	76½	87	143¼	141¾	105⅛	149¼	144	108	5	¾	⅞
9½ ft.	52¼	64¾	84¼	68½	82¾	35	75⅜	75¼	62¾	57	95	74¾	79	91¼	151¼	149	110⅝	154¼	149½	114	5	¾	⅞
10 ft.	55	67¾	88¼	72	87	36½	79½	82½	67½	60	100	82	86	95½	159	156	116	168½	164	120	5½	¾	⅞
11 ft.	60½	74	96½	79¼	95¼	39½	87½	87¾	72½	66	110	87¼	91	104	175	170½	127	178¼	174½	132	6	¾	1
12 ft.	66	80½	105	86¾	104⅜	42½	95⅜	92¼	77½	72	120	92¼	96	112½	190¾	185½	137⅞	188¾	185½	144	6	¾	1

Double Inlet

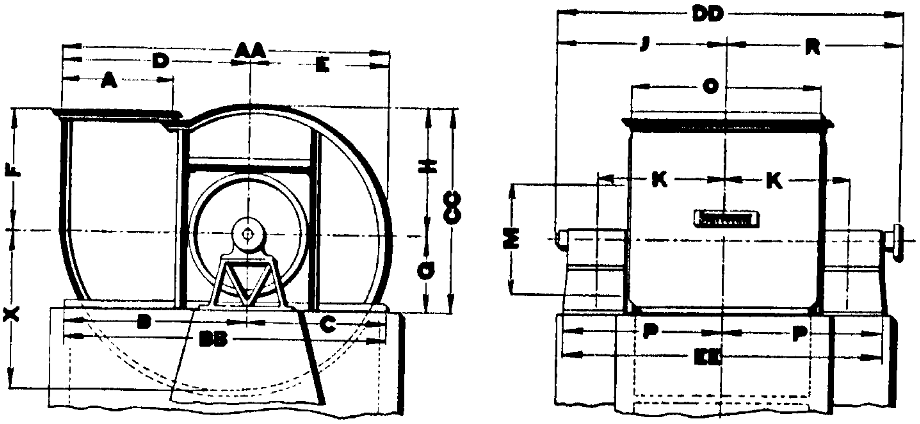
Steel Plate Fan—Design 2

Double Width

¾ Housing

Up Blast Discharge

Overhung Pulley



Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																							Fan	Ped.
4 ft.	22½	39¾	31	38	32	28¾	17	29	39½	30¾	24	40½	37¾	42¾	35	70	73¼	46	82¼	75½	48	2 15/16	⅝	⅝
4½ ft	25¼	43¾	38	42⅞	36	32½	18½	32⅝	42	33¼	27	45½	40¼	45½	39⅜	78¾	81¾	51⅛	87¼	80½	54	2 15/16	⅝	⅝
5 ft.	28	48	41½	47⅜	39⅞	36	20	36⅛	44½	35¾	30	50½	43	47¾	43⅜	87¼	89½	56⅛	92¼	86	60	2 15/16	¾	¾
5½ ft.	30¾	52½	45¼	52⅛	43⅞	39½	21½	39¾	49⅞	39¾	33	55½	48½	54¼	48	96	97¾	61¼	104⅛	97	66	3 7/16	¾	¾
6 ft.	33½	56½	49	56⅞	47⅞	43¾	23½	43⅞	52⅜	42¼	36	60½	51¼	56¾	52⅜	104¾	105½	66⅞	109⅛	102½	72	3 7/16	¾	¾
6½ ft.	36¼	62½	54	61½	51¾	46¼	26	46⅞	56⅜	46¼	39	65½	55½	60¾	56⅝	113¼	116½	72⅞	117⅛	111	78	3 7/16	¾	¾
7 ft.	39	67	58	66⅜	55⅞	50½	27½	50⅝	59¼	48¾	42	70½	58¼	63¼	61⅛	122¼	125	78⅛	122½	116½	84	3 15/16	¾	⅞
7½ ft.	41¾	71¼	61¼	71	59¾	54	29	54⅛	61¾	51¼	45	75½	61	65¾	65⅜	130¾	133	83⅛	127½	122	90	3 15/16	¾	⅞
8 ft.	44½	75¼	65½	75¾	63¼	57½	30½	57¼	67¾	55¼	48	80½	66¾	71½	69¾	139½	141¼	88¼	139¾	133½	96	4½	¾	⅞
8½ ft.	47¼	80	69	80⅜	67⅝	61¼	32	61¼	70¼	57¾	51	85½	69¼	74	74	148	149	93¼	144¼	138½	102	4½	¾	⅞
9 ft.	50	84¼	73	85⅛	71⅝	64¾	33½	64⅞	72¾	60¼	54	90½	72	76½	78⅜	156¾	157¼	98⅜	149¼	144	108	5	¾	⅞
9½ ft.	52¾	88¾	76¾	89⅞	75⅝	68½	35	68½	75¾	62¾	57	95½	74¾	79	82¾	165¼	165½	103½	154¼	149½	114	5	¾	⅞
10 ft.	55½	93	80¼	94½	79½	72	36½	72	82½	67½	60	100½	82	86	87	174	173¼	108½	168½	164	120	5½	¾	⅞
11 ft.	61	102	87¼	104	87½	79¼	39½	79¼	87¾	72½	66	110½	87¼	91	95¾	191½	189¾	118¾	178¾	171½	132	6	¾	1
12 ft.	66½	110¾	95¼	113⅜	95⅜	86½	42½	86⅜	92¾	77½	72	120½	92¾	96	104⅜	208¾	206	128⅞	188¾	185½	144	6	¾	1

Double Inlet

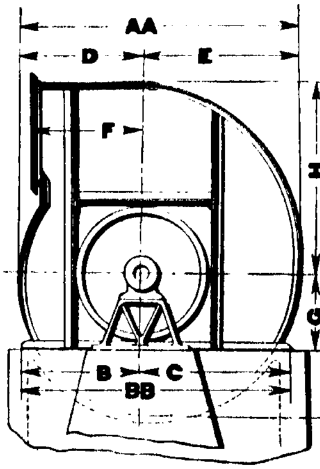
Steel Plate Fan—Design 2

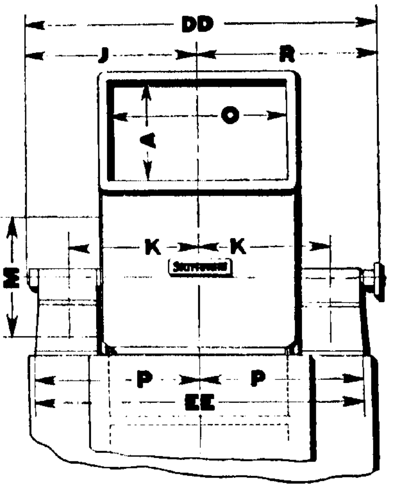
Double Width

¾ Housing

Top Horizontal Discharge

Overhung Pulley





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	X	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																							Fan	Pedestal
4 ft.	22½	30¾	35¾	29	35	28¾	17	38	39½	30¾	24	40½	37¾	42¾	32	64	66½	55	82¼	75½	48	2 15/16	⅝	⅝
4½ ft.	25¼	34	39¼	32⅝	39⅝	32½	18½	42¾	42	33¼	27	45½	40¼	45¼	36	72	73¾	61¼	87¼	80½	54	2 15/16	⅝	⅝
5 ft.	28	37½	43¾	36⅛	43⅝	36	20	47⅞	44½	35¾	30	50½	43	47⅞	39⅜	79¾	81¼	67⅞	92¼	86	60	2 15/16	¾	¾
5½ ft.	30¾	40¾	47¼	39¾	48	39½	21½	52⅛	49⅞	39¾	33	55½	48½	54¼	43⅞	87¾	88½	73⅝	104⅛	97	66	3 7/16	¾	¾
6 ft.	33½	44	51½	43⅛	52⅞	43¼	23½	56⅞	52⅞	42¼	36	60½	51¼	56¾	47⅞	95¾	95½	80⅞	109⅛	102½	72	3 7/16	¾	¾
6½ ft.	36¼	48¾	56¼	46⅞	56⅝	46¾	26	61½	56⅞	46¼	39	65½	55½	60¼	51¾	103½	105½	87½	117⅛	111	78	3 7/16	¾	¾
7 ft.	39	52¼	61¼	50⅝	61⅛	50½	27½	66⅞	59¼	48¾	42	70½	58¼	63¼	55⅞	111¾	113½	93⅞	122½	116½	84	3 15/16	¾	⅞
7½ ft.	41¾	55¾	65	54⅛	65⅞	54	29	71	61¼	51¼	45	75½	61	65¾	59¾	119½	120¼	100	127½	122	90	3 15/16	¾	⅞
8 ft.	44½	59	69	57¾	69¼	57½	30½	75¾	67¼	55¼	48	80½	66¾	71½	63⅞	127½	128	106¼	139¼	133½	96	4½	¾	⅞
8½ ft.	47¼	62¼	72¼	61¼	74	61¼	32	80⅜	70¼	57¾	51	85½	69¼	74	67⅝	135¼	135	112⅜	144¼	138½	102	4½	¾	⅞
9 ft.	50	65½	76¾	64⅞	78⅛	64¾	33½	85⅛	72¼	60¼	54	90½	72	76½	71⅜	143¼	142¼	118⅞	149¼	144	108	5	¾	⅞
9½ ft.	52¾	69	81	68½	82¼	68½	35	89⅞	75¼	62¼	57	95½	74¼	79	75⅜	151¼	150	124⅞	154¼	149½	114	5	¾	⅞
10 ft.	55½	72¼	84⅞	72	87	72	36½	94½	82½	67½	60	100½	82	86	79½	159	157	131	168½	164	120	5½	¾	⅞
11 ft.	61	79	92¼	79¼	95¼	79¼	39½	104	87¼	72½	66	110½	87¼	91	87½	175	171¾	143½	178¾	174½	132	6	¾	1
12 ft.	66½	85¾	100¾	86⅞	104⅞	86½	42½	113⅞	92¾	77½	72	120½	92¼	96	95¾	190¾	186½	155⅞	188¾	185½	144	6	¾	1

Single Inlet **Single Width**

4' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
111	1100	0.155	1,740	0.050												
127	1600	0.202	2,380	0.100												
143	1800	0.256	2,950	0.155	1,680	0.100										
159	2000	0.316	3,420	0.235	2,540	0.175										
175	2200	0.383	3,910	0.310	3,200	0.260	2,030	0.185								
191	2400	0.456	4,380	0.415	3,780	0.360	2,930	0.295								
207	2600	0.534	4,800	0.54	4,300	0.485	3,610	0.415	2,660	0.33						
223	2800	0.620	5,280	0.67	4,820	0.63	4,200	0.55	3,480	0.47	2,350	0.355				
239	3000	0.712	5,730	0.87			4,780	0.72	4,190	0.63	3,390	0.54	1,880	0.355		
255	3200	0.810	6,160	1.05			5,300	0.91	4,770	0.82	4,140	0.73	3,320	0.62		
271	3400	0.914	6,620	1.30			5,840	1.15	5,350	1.05	4,760	0.93	4,150	0.84	3,320	0.71
287	3600	1.02	7,030	1.55					5,900	1.25	5,350	1.15	4,800	1.05	4,230	0.96
303	3800	1.14	7,500	1.80					6,410	1.55	5,970	1.45	5,450	1.35	4,960	1.25
319	4000	1.27	7,900	2.10							6,500	1.75	6,090	1.65	5,590	1.50
335	4200	1.39	8,330	2.45							7,020	2.10	6,640	2.00	6,200	1.80
351	4400	1.53	8,780	2.85							7,550	2.45	7,180	2.30	6,800	2.20
367	4600	1.67	9,220	3.25									7,700	2.75	7,340	2.60
382	4800	1.82	9,630	3.7									8,200	3.2	7,860	3.05
398	5000	1.98	10,100	4.2											8,400	3.55

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
287	3600	1.02	3,350	0.82												
303	3800	1.14	4,300	1.10												
319	4000	1.27	5,070	1.40	3,580	1.10										
334	4200	1.39	5,740	1.70	4,600	1.45										
350	4400	1.53	6,350	2.05	5,400	1.80	4,040	1.45								
366	4600	1.67	6,980	2.45	6,100	2.20	5,080	1.95	3,040	1.30						
382	4800	1.82	7,510	2.90	6,730	2.60	5,850	2.35	4,640	2.00						
398	5000	1.98	8,140	3.40	7,220	3.05	6,540	2.80	5,600	2.50	4,160	2.0				
417	5250	2.18	8,760	4.05	8,080	3.79	7,340	3.40	6,550	3.15	5,600	2.8				
437	5500	2.39	9,400	4.8	8,780	4.45	8,140	4.10	7,420	3.80	6,630	3.5	3,620	2.50		
457	5750	2.61			9,430	5.2	8,810	4.85	8,200	4.4	7,550	4.3	5,590	3.40		
477	6000	2.85			10,100	6.1	9,570	5.7	8,880	5.3	8,350	5.1	6,770	4.35	3,770	2.85
497	6250	3.00					10,200	6.7	9,670	6.3	9,110	6.0	7,740	5.3	5,910	4.35
517	6500	3.33					10,900	7.8	10,400	7.3	9,880	7.0	8,560	6.2	7,150	5.4
537	6750	3.60					11,500	8.9	11,100	8.4	10,500	8.0	9,430	7.3	8,190	6.5
557	7000	3.88							11,700	9.7	11,200	9.2	10,200	8.4	9,050	7.7
575	7250	4.15							12,400	11	11,900	10.5	10,900	9.6	9,910	8.9
597	7500	4.45									12,600	12.0	11,600	11.0	10,700	10.0
615	7750	4.75									13,200	13.5	12,300	12.5	11,400	11.5
637	8000	5.06											13,000	14.0	12,200	13.5
655	8250	5.38											13,700	15.5	12,800	14.5
677	8500	5.71											14,300	17.5	13,500	16.5
695	8750	6.05											15,000	19	14,200	18.5
717	9000	6.41													14,800	20

Single Inlet **4' Steel Plate Fan—Design 2—Cont'd** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
517	6500	3.33	4,090	3.6												
537	6750	3.60	6,360	5.4												
557	7000	3.88	7,600	6.7	5,180	5.1										
575	7250	4.15	8,620	8.0	7,050	6.9										
597	7500	4.45	9,520	9.3	8,250	8.3										
615	7750	4.75	10,300	10.5	9,270	9.8	4,770	6.0								
637	8000	5.06	11,200	12.0	10,200	11.5	7,260	8.7								
655	8250	5.37	11,900	13.5	11,000	13.0	8,630	10.5								
677	8500	5.71	12,700	15.5	11,800	14.5	9,700	12.5	5,350	8.0						
695	8750	6.05	13,400	17.0	12,600	16.5	10,700	14.5	8,000	11.5						
717	9000	6.41	14,100	19.0	13,400	18.5	11,600	16.5	9,420	14.0						
756	9500	7.14	15,500	23.5	14,700	22	13,200	20.5	11,400	18.0	8,780	15				
796	10000	7.91	16,800	28.5	16,100	27	14,800	25	13,200	22.5	11,300	20	8,310	16.0		
837	10500	8.72			17,500	33	16,200	30	14,800	28	13,200	25	11,200	22.5	7,770	17
877	11000	9.57			18,900	38	17,500	35	16,300	33	14,900	31	13,200	28	11,200	25
917	11500	10.5					18,900	42	17,700	40	16,500	37	15,000	34	13,400	31
956	12000	11.4					20,200	49	19,000	46	18,000	43	16,700	41	15,300	38
996	12500	12.4							20,400	54	19,400	50	18,300	48	17,100	45
1035	13000	13.4							21,700	62	20,800	58	19,700	56	18,600	52
1075	13500	14.4							23,100	72	22,100	68	21,100	64	20,000	62
1115	14000	15.5									23,500	78	22,500	74	21,500	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs.per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
877	11000	9.57	7,270	18												
917	11500	10.5	11,300	28	7,270	20										
956	12000	11.4	13,600	35	11,500	31	7,400	22								
996	12500	12.4	15,600	42	14,000	39	11,800	35	7,700	25						
1035	13000	13.4	17,300	50	15,900	47	14,300	43	12,200	39	8,320	29				
1075	13500	14.4	18,900	58	17,700	56	16,300	52	14,700	48	12,700	44	9,230	34		
1115	14000	15.5	20,400	68	19,300	64	18,100	62	16,800	58	15,200	54	13,200	49		

Single Inlet

4½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .287 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
99	1400	0 155	2,180	0 074												
113	1600	0 202	3,000	0 130												
127	1800	0 256	3,690	0 195	2,110	0.130										
141	2000	0 316	4,320	0 295	3,180	0.220										
155	2200	0 383	4,930	0.395	4,000	0.325	2,540	0 23								
169	2400	0 456	5,520	0 53	4,730	0.455	3,570	0.37								
183	2600	0 534	6,070	0 68	5,400	0.61	4,520	0.52	3,330	0.41						
197	2800	0 620	6,660	0 85	6,050	0 79	5,270	0 69	4,370	0.59	2,940	0 445				
211	3000	0 712	7,230	1 10			6,000	0 90	5,250	0.79	4,250	0.68	2,360	0 445		
225	3200	0 810	7,770	1 35			6,650	1.15	5,970	1.05	5,180	0 92	4,150	0 78		
240	3400	0 914	8,350	1 65			7,320	1.45	6,700	1.30	5,970	1.15	5,200	1.05	4,150	0 89
254	3600	1 02	8,890	1 95					7,400	1 55	6,700	1 45	6,030	1 35	5,300	1.20
268	3800	1 14	9,470	2 30					8,040	1 95	7,500	1.8	6,830	1 70	6,220	1 55
283	4000	1 27	9,980	2 65							8,140	2 2	7,620	2.05	7,010	1.90
297	4200	1.39	10,500	3 1							8,800	2 6	8,320	2.50	7,780	2 30
311	4400	1 53	11,100	3 6							9,480	3 1	8,980	2 90	8,500	2 75
325	4600	1 67	11,600	4 1									9,650	3 45	9,200	3 25
339	4800	1 82	12,200	4 7									10,300	4	9,860	3 8
353	5000	1 98	12,700	5 3											10,600	4 5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq.inch		Static Pressure 1¼" Water .723 per ozs. sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½ " Water 1.45 ozs. per sq. inch		Static Pessure 3" Water 1.73 ozs. per sq. inch	
254	3600	1.02	4,200	1.05												
268	3800	1.14	5,400	1.40												
283	4000	1.27	6,370	1.75	4,490	1.35										
297	4200	1 39	7,200	2 15	5,780	1.80										
311	4400	1.53	7,970	2.6	6,780	2.30	5,060	1.85								
325	4600	1 67	8,740	3.1	7,650	2.75	6,370	2.40	3,810	1.65						
339	4800	1 82	9,430	3.6	8,440	3.3	7,330	2.95	5,810	2.50						
353	5000	1 98	10,100	4.2	9,050	3 8	8,200	3.5	7,030	3.15	5,200	2.5				
372	5250	2 18	10,900	5.1	10,100	4.6	9,200	4.3	8,220	3.95	6,970	3.5				
390	5500	2 39	11,800	6	11,000	5.6	10,200	5.2	9,300	4.8	8,300	4.4	4,540	3.15		
407	5750	2.61			11,800	6.5	11,100	6.1	10,300	5.7	9,400	5 4	7,000	4.3		
425	6000	2 85			12,700	7.7	12,000	7.2	11,100	6.7	10,400	6 3	8,500	5 4	4,620	3 5
442	6250	3.09					12,800	8.4	12,100	7 9	11,400	7.5	9,700	6.6	7,390	5.4
460	6500	3.33					13,600	9.7	13,000	9 2	12,300	8 7	10,800	7 8	8,930	6.8
477	6750	3 60					14,400	11	13,900	10.5	13,200	10.0	11,800	9.1	10,200	8.1
495	7000	3 88							14,700	12	14,100	11.5	12,800	10.5	11,300	9.6
512	7250	4 15							15,500	14	14,900	13	13,700	12 0	12,400	11.0
532	7500	4 45									15,700	15	14,600	13 5	13,400	12.5
548	7750	4.75									16,600	17	15,500	15.5	14,300	14.5
566	8000	5.06											16,300	17.5	15,300	16.0
583	8250	5.38											17,100	19.5	16,100	18.0
601	8500	5.71											18,000	22	16,900	20.5
618	8750	6.05											18,800	24	17,800	23
636	9000	6.41													18,600	25

Single Inlet 4½' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
460	6,500	3.33	5,130	4.5												
477	6,750	3.60	7,960	6.8												
495	7,000	3.88	9,520	8.4	6,370	6.2										
512	7,250	4.15	10,800	10.0	8,690	8.5										
532	7,500	4.45	12,000	11.5	10,300	10.5										
548	7,750	4.75	13,000	13.5	11,600	12.5	6,030	7.6								
566	8,000	5.06	14,000	15.0	12,700	14	9,020	11.0								
583	8,250	5.37	15,000	17.0	13,800	16	10,700	13.5								
601	8,500	5.71	16,000	19.5	14,000	18	12,100	15.5	6,620	10.0						
618	8,750	6.05	16,800	21.5	15,700	20	13,400	18	9,620	14.5						
636	9,000	6.41	17,800	24	16,700	23	14,400	20	11,400	17.0						
672	9,500	7.14	19,400	30	18,400	28	16,600	25	14,300	22.5	11,000	18.5				
708	10,000	7.91	21,100	36	20,200	34	18,400	31	16,500	28	14,100	25	10,300	20		
743	10,500	8.72			21,900	41	20,400	38	18,600	35	16,600	32	14,100	28	9,540	21
779	11,000	9.57			23,700	48	22,100	44	20,400	41	18,700	39	16,700	35	14,000	31
814	11,500	10.5					23,700	52	22,100	50	20,600	46	18,900	43	16,800	39
850	12,000	11.4					25,400	62	23,900	58	22,500	54	21,000	52	19,100	48
885	12,500	12.4							25,600	68	24,300	64	22,800	60	21,300	56
920	13,000	13.4							27,300	78	26,100	74	24,700	70	23,200	66
955	13,500	14.4							29,000	90	27,700	86	26,400	80	25,100	76
990	14,000	15.5									29,500	98	28,200	92	26,900	88

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
779	11,000	9.57	9,100	22.5												
814	11,500	10.5	14,100	35	8,950	24.5										
850	12,000	11.4	17,100	44	14,300	39	9,200	28								
885	12,500	12.4	19,400	52	17,500	49	14,800	43	9,630	31						
920	13,000	13.4	21,600	62	20,000	58	18,000	54	15,400	49	10,400	36				
955	13,500	14.4	23,600	74	22,200	70	20,500	66	18,500	60	15,900	54	11,600	43		
990	14,000	15.5	25,600	84	24,200	80	22,700	78	21,000	72	19,100	68	16,600	60		

Single Inlet **Single Width**

5' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 4.34 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
89	1400	0.155	2,690	0.092												
102	1600	0.202	3,690	0.160												
115	1800	0.256	4,560	0.240	2,590	0.16										
127	2000	0.316	5,330	0.365	3,930	0.27										
140	2200	0.383	6,100	0.485	4,940	0.40	3,130	0.285								
153	2400	0.456	6,820	0.65	5,850	0.56	4,520	0.455								
166	2600	0.534	7,480	0.84	6,650	0.75	5,580	0.64	4,120	0.51						
178	2800	0.620	8,220	1.05	7,460	0.98	6,510	0.85	5,390	0.73	3,630	0.55				
191	3000	0.712	8,930	1.35			7,380	1.10	6,480	0.98	5,250	0.84	2,910	0.55		
204	3200	0.810	9,600	1.65			8,190	1.40	7,380	1.25	6,400	1.15	5,130	0.96		
217	3400	0.914	10,300	2.00			9,030	1.75	8,290	1.6	7,360	1.45	6,430	1.30	5,130	1.10
229	3600	1.02	11,000	2.40					9,100	1.9	8,260	1.8	7,130	1.65	6,550	1.50
242	3800	1.14	11,800	2.80					9,920	2.1	9,230	2.2	8,430	2.05	7,670	1.90
255	4000	1.27	12,300	3.30							10,000	2.7	9,400	2.50	8,650	2.35
268	4200	1.39	13,000	3.8							10,900	3.2	10,300	3.10	9,600	2.8
280	4400	1.53	13,700	4.4							11,700	3.8	11,100	3.60	10,500	3.4
293	4600	1.67	14,400	5.1									11,900	4.25	11,400	4.0
306	4800	1.82	15,000	5.8									12,700	4.95	12,200	4.7
318	5000	1.98	15,700	6.6											13,000	5.5

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .773 ozs. per sq. inch		Static Pressure 1½' Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.46 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
229	3600	1.02	5,180	1.25												
242	3800	1.14	6,650	1.70												
255	4000	1.27	7,860	2.20	5,540	1.70										
268	4200	1.39	8,890	2.65	7,120	2.25										
280	4400	1.53	9,840	3.20	8,360	2.80	6,250	2.30								
293	4600	1.67	10,800	3.80	9,430	3.40	7,860	3.00	4,700	2.05						
306	4800	1.82	11,600	4.45	10,400	4.05	9,050	3.65	7,170	3.10						
318	5000	1.98	12,500	5.2	11,200	4.7	10,100	4.35	8,680	3.85	6,410	3.1				
331	5250	2.18	13,500	6.3	12,500	5.7	11,400	5.3	10,100	4.85	8,600	4.3				
350	5500	2.39	14,500	7.4	13,600	6.9	12,600	6.4	11,500	5.9	10,200	5.4	5,600	3.9		
366	5750	2.61			14,600	8.1	13,600	7.5	12,700	7.1	11,600	6.6	8,650	5.3		
382	6000	2.85			15,600	9.3	14,800	8.9	13,700	8.3	12,800	7.8	10,500	6.7	5,700	4.3
398	6250	3.09					15,800	10.5	15,000	9.7	14,100	9.2	12,000	8.1	9,120	6.7
414	6500	3.33					16,800	12	16,100	11.5	15,200	10.5	13,300	9.6	11,000	8.3
430	6750	3.60					17,800	14	17,100	13	16,300	12.5	14,600	11.5	12,600	10.0
446	7000	3.88							18,100	15	17,400	14.0	15,800	13.0	14,000	12.0
460	7250	4.15							19,100	17	18,300	16.0	16,900	15.0	15,300	13.5
477	7500	4.45									19,400	18.5	18,000	16.5	16,500	15.5
493	7750	4.75									20,400	21	19,100	19	17,600	17.5
510	8000	5.06											20,100	22	18,800	20.0
525	8250	5.38											21,200	24	19,900	22.5
541	8500	5.71											22,200	27	20,800	25
556	8750	6.05											23,200	30	22,000	28
574	9000	6.41													23,000	31

Single Inlet **Single Width**

5' Steel Plate Fan—Design 2—Cont'd

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
414	6500	3.33	6,320	5.5												
430	6750	3.60	9,840	8.4												
446	7000	3.88	11,700	10.5	7,850	7.7										
460	7250	4.15	13,300	12.5	10,700	10.5										
477	7500	4.45	14,700	14.5	12,700	13.0										
493	7750	4.75	16,000	16.5	14,300	15.0	7,150	9.3								
510	8000	5.06	17,300	19	15,700	17.5	11,100	13.5								
525	8250	5.37	18,500	21	17,100	20.0	13,200	16.5								
541	8500	5.71	19,700	24	18,200	22.5	14,900	19	8,170	12.5						
556	8750	6.05	20,800	26	19,400	25	16,500	22	11,900	17.5						
574	9000	6.41	21,900	30	20,200	28	17,800	25	14,100	21						
605	9500	7.14	24,000	37	22,700	31	20,400	31	17,600	28	13,500	23				
637	10000	7.91	26,000	44	24,900	42	22,800	38	20,100	35	17,300	31	12,700	25		
670	10500	8.72			27,100	50	25,100	47	22,900	43	20,400	39	17,300	35	11,800	26
701	11000	9.57			29,200	60	27,200	51	25,200	52	23,000	48	20,500	44	17,300	38
733	11500	10.5					29,200	64	27,300	62	25,400	56	23,300	52	20,700	48
765	12000	11.4					31,300	76	29,400	72	27,800	66	25,900	62	23,600	58
797	12500	12.4							31,600	82	30,000	78	28,100	74	26,200	70
828	13000	13.4							33,600	96	32,100	90	30,500	86	28,700	82
860	13500	14.4							35,800	110	34,200	105	32,600	98	31,000	94
892	14000	15.5									36,300	120	34,800	115	33,200	110

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
701	11000	9.57	11,200	28												
733	11500	10.5	17,400	43	11,000	30										
765	12000	11.4	21,100	54	17,700	48	11,400	34								
797	12500	12.4	24,000	66	21,600	60	18,300	54	11,000	39						
828	13000	13.4	26,600	78	24,600	72	22,200	68	19,000	60	12,900	45				
860	13500	14.4	29,200	90	27,300	86	25,300	80	22,800	74	19,700	68	14,300	52		
892	14000	15.5	31,600	105	29,800	100	28,000	96	26,000	88	23,600	84	20,500	76		

Single Inlet **Single Width**

5½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
81	1400	0.155	3,260	0.110												
93	1600	0.202	4,460	0.19												
104	1800	0.256	5,520	0.29	3,140	0.190										
116	2000	0.316	6,460	0.44	4,750	0.330										
127	2200	0.383	7,380	0.59	5,980	0.485	3,800	0.345								
139	2400	0.456	8,250	0.79	7,080	0.68	5,480	0.55								
150	2600	0.531	9,050	1.00	8,050	0.91	6,750	0.77	4,980	0.62						
162	2800	0.620	9,950	1.25	9,030	1.2	7,870	1.05	6,530	0.88	4,400	0.67				
171	3000	0.712	10,900	1.65			8,950	1.35	7,850	1.20	6,350	1.00	3,520	0.66		
185	3200	0.810	11,600	2.00			9,920	1.70	8,930	1.55	7,750	1.35	6,210	1.15		
197	3400	0.914	12,500	2.45			10,900	2.15	10,000	1.95	8,910	1.75	7,780	1.50	6,200	1.35
208	3600	1.02	13,300	2.85					11,000	2.30	10,000	2.2	9,000	2.00	7,920	1.80
220	3800	1.14	14,200	3.4					12,000	2.95	11,200	2.7	10,200	2.50	9,300	2.30
232	4000	1.27	14,900	4.0							12,200	3.3	11,400	3.05	10,500	2.85
243	4200	1.39	15,700	4.6							13,200	3.9	12,400	3.70	11,600	3.40
255	4400	1.53	16,600	5.4							14,200	4.6	13,400	4.35	12,700	4.10
266	4600	1.67	17,400	6.1									14,400	5.2	13,800	4.85
278	4800	1.82	18,200	7									15,300	5.9	14,800	5.7
289	5000	1.98	19,000	8											15,800	6.7

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.46 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
208	3600	1.02	6,270	1.55												
220	3800	1.14	8,050	2.05												
232	4000	1.27	9,520	2.65	6,710	2.05										
243	4200	1.39	10,800	3.25	8,630	2.7										
255	4400	1.53	11,900	3.90	10,100	3.4	7,560	2.75								
266	4600	1.67	13,100	4.65	11,400	4.1	9,510	3.6	5,700	2.5						
278	4800	1.82	14,100	5.4	12,600	4.9	11,000	4.4	8,690	3.7						
290	5000	1.98	15,100	6.3	13,500	5.7	12,300	5.3	10,500	4.7	7,750	3.75				
304	5250	2.18	16,300	7.7	15,100	6.9	13,700	6.4	12,300	5.9	10,400	5.2				
318	5500	2.39	17,600	9	16,500	8.3	15,200	7.7	13,900	7.2	12,400	6.6	6,780	4.7		
332	5750	2.61			17,700	9.8	16,500	9.1	15,400	8.6	14,000	8.0	10,500	6.4		
348	6000	2.85			18,900	11.5	17,900	11.0	16,600	10.0	15,500	9.5	12,700	8.1	6,900	5.2
361	6250	3.09					19,200	12.5	18,100	12.0	17,000	11.0	14,500	9.9	11,100	8.1
376	6500	3.33					20,500	14.5	19,500	13.5	18,400	13.0	16,100	11.5	13,400	10.0
390	6750	3.60					21,600	16.5	20,700	16.0	19,700	15.0	17,700	13.5	15,300	12.0
405	7000	3.88							21,900	18.0	21,000	17.5	19,100	15.5	16,900	14.5
419	7250	4.15							23,100	20.5	22,200	19.5	20,500	18	18,500	16.5
435	7500	4.45									23,500	22.5	21,800	20	20,000	19.0
448	7750	4.75									24,700	25	23,100	23	21,400	21.5
464	8000	5.06											24,300	26	22,800	24
479	8250	5.38											25,600	29	24,000	27
491	8500	5.71											26,900	33	25,200	31
506	8750	6.05											28,100	36	26,600	34
520	9000	6.41													27,800	38

Single Inlet 5½' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.04 ozs. per sq. inch		Static Pressure 8″ Water 4.62 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
376	6500	3.33	7,660	6.7												
390	6750	3.60	11,900	10.0												
405	7000	3.88	14,200	12.5	9,500	9.3										
419	7250	4.15	16,200	15.0	13,000	12.5										
435	7500	4.45	17,800	17.5	15,400	15.5										
440	7750	4.75	19,400	20.0	17,300	18.5	9,020	11.5								
464	8000	5.06	21,000	22.5	19,000	21	13,500	16.5								
477	8250	5.37	22,400	26	20,600	24	16,000	20								
491	8500	5.71	23,800	29	22,100	27	18,100	23	9,890	15						
506	8750	6.05	25,100	32	23,500	30	20,000	27	14,400	21						
520	9000	6.41	26,500	36	24,900	34	21,600	30	17,100	26						
550	9500	7.14	29,000	44	27,500	42	24,700	38	21,300	34	16,400	28				
578	10000	7.91	31,500	51	30,200	52	27,600	46	24,600	42	21,000	37	15,300	30		
609	10500	8.72			32,800	62	30,400	56	27,700	52	24,700	47	21,000	42	14,300	31
637	11000	9.57			35,100	72	32,900	66	30,500	62	27,900	58	24,800	52	20,900	46
666	11500	10.5					35,400	78	33,100	74	30,800	68	28,200	64	25,100	58
695	12000	11.4					37,800	92	35,600	86	33,600	80	31,400	76	28,500	72
724	12500	12.4							38,200	100	36,200	94	34,000	90	31,700	86
751	13000	13.4							40,700	115	38,900	110	36,900	105	34,700	100
781	13500	14.4							43,300	135	41,400	125	39,500	120	37,500	115
811	14000	15.5									44,000	145	42,100	140	40,200	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
637	11000	9.57	13,600	34												
666	11500	10.5	21,100	52	13,400	37										
695	12000	11.4	25,500	66	21,400	58	13,800	42								
724	12500	12.4	29,000	80	26,100	72	22,100	64	14,400	47						
751	13000	13.4	32,200	91	29,800	88	26,900	82	23,000	72	15,600	54				
781	13500	14.4	35,300	110	33,100	105	30,600	98	27,600	90	23,800	82	17,300	64		
811	14000	15.5	38,300	125	36,100	120	34,000	115	31,400	110	28,600	100	21,800	90		

Single Inlet **Single Width**

6' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
74	1400	0.155	3,880	0.130												
85	1600	0.202	5,320	0.230												
95	1800	0.256	6,570	0.345	3,750	0.23										
106	2000	0.316	7,700	0.53	5,680	0.39										
117	2200	0.383	8,800	0.70	7,140	0.58	4,520	0.41								
127	2400	0.456	9,830	0.94	8,430	0.81	6,530	0.66								
138	2600	0.534	10,800	1.20	9,590	1.1	8,050	0.92	5,940	0.74						
149	2800	0.620	11,900	1.50	10,800	1.4	9,400	1.25	7,790	1.05	5,250	0.79				
159	3000	0.712	12,900	1.95			10,700	1.60	9,350	1.40	7,550	1.20	4,200	0.79		
170	3200	0.810	13,800	2.35			11,800	2.05	10,700	1.85	9,230	1.65	7,400	1.40		
180	3400	0.914	14,900	2.90			13,000	2.55	12,000	2.80	10,600	2.05	9,280	1.85	7,410	1.60
191	3600	1.02	15,800	3.40					13,200	2.75	11,900	2.6	10,700	2.40	9,440	2.15
202	3800	1.14	16,900	4.05					14,300	3.5	13,400	3.2	12,200	3.00	11,100	2.75
212	4000	1.27	17,700	4.75							14,500	3.9	13,600	3.65	12,500	3.40
223	4200	1.39	18,700	5.5							15,700	4.7	14,800	4.45	13,900	4.05
233	4400	1.53	19,700	6.4							16,900	5.5	16,000	5.20	15,200	4.9
244	4600	1.67	20,700	7.3									17,200	6.15	16,400	5.8
255	4800	1.82	21,700	8.4									18,300	7.10	17,600	6.8
266	5000	1.98	22,600	9.5											18,800	8

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq.inch		Static Pressure 1¼" Water .723 per ozs. sq. inch		Static Pressure 1½" Water .8[illegible] ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pessure 3" Water 1.73 ozs. per sq. inch	
191	3600	1.02	7,470	1.80												
202	3800	1.14	9,580	2.45												
212	4000	1.27	11,300	3.15	8,000	2.45										
223	4200	1.39	12,800	3.85	10,300	3.25										
233	4400	1.53	14,200	4.60	12,100	4.05	9,000	3.3								
244	4600	1.67	15,500	5.5	13,600	4.9	11,300	4.3	6,780	2.95						
255	4800	1.82	16,800	6.4	15,000	5.8	13,100	5.3	10,300	4.45						
266	5000	1.98	18,000	7.5	16,100	6.8	14,600	6.3	12,500	5.6	9,250	4.5				
278	5250	2.18	19,500	9.1	18,000	8.2	16,400	7.6	14,000	7.0	12,400	6.2				
292	5500	2.39	20,900	10.5	19,600	9.9	18,200	9.2	16,500	8.5	14,800	7.8	8,080	5.6		
305	5750	2.61			21,000	11.5	19,700	11.0	18,300	10.9	16,700	9.5	12,500	7.6		
318	6000	2.85			22,500	13.5	21,300	13.0	19,800	12.0	18,500	11.5	15,100	9.7	8,220	6.2
332	6250	3.09					22,800	15.0	21,600	14.0	20,300	13.5	17,300	11.5	13,200	9.7
345	6500	3.33					24,200	17.5	23,100	16.5	21,800	15.5	19,100	14.0	15,900	12.0
358	6750	3.60					25,600	20	24,600	19.0	23,500	17.0	21,000	16.0	18,200	14.5
372	7000	3.88							26,000	21.5	25,100	20.5	22,800	18.5	20,100	17.0
384	7250	4.15							27,500	24.7	26,400	23	24,400	21.5	22,000	20.0
398	7500	4.45									28,000	27	25,900	24	23,800	22.5
410	7750	4.75									29,500	30	27,500	28	25,400	25
425	8000	5.06											29,000	31	27,100	29
437	8250	5.38											30,500	35	28,600	32
451	8500	5.71											32,000	39	30,000	37
464	8750	6.05											33,400	43	31,700	41
478	9000	6.41													33,200	45

Single Inlet

6' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
345	6500	3 33	9,130	8												
358	6750	3 60	14,200	12												
372	7000	3 88	16,900	15	11,300	11 0										
384	7250	4 15	19,200	18	15,500	15 0										
398	7500	4 45	21,200	21	18,300	18 5										
410	7750	4 75	23,100	24	20,600	22	10,700	13 5								
425	8000	5 06	25,000	27	22,600	25	16,100	19 5								
437	8250	5 37	26,600	30	24,600	29	19,000	23 5								
451	8500	5 71	28,400	34	26,300	32	21,500	28	11,800	18						
464	8750	6 05	29,900	38	28,000	36	23,800	32	17,100	25						
478	9000	6 41	31,600	43	29,700	40	25,700	36	20,300	31						
504	9500	7 11	34,600	52	32,700	50	29,400	45	25,400	40	19,500	33				
530	10000	7 91	37,600	64	36,000	60	32,800	54	29,300	50	25,000	45	18,300	35		
558	10500	8 72			39,000	72	36,200	68	33,000	62	29,400	56	25,000	50	17,000	37
584	11000	9 57			42,100	86	39,200	80	36,400	74	33,200	68	29,800	62	24,900	56
611	11500	10 5					42,200	92	39,400	88	36,700	82	33,600	76	29,900	70
637	12000	11 4					45,100	110	42,500	105	40,000	96	37,300	90	34,000	84
663	12500	12 4							45,500	120	43,200	110	40,500	105	37,800	100
690	13000	13 4							48,500	135	46,300	130	43,900	125	41,300	120
717	13500	14 4							51,600	160	49,300	150	47,100	140	44,700	135
743	14000	15.5									52,400	175	50,200	165	47,800	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
584	11000	9 57	16,200	40												
611	11500	10 5	25,200	62	15,900	44										
637	12000	11 4	30,400	78	25,500	68	16,400	50								
663	12500	12 4	34,600	94	31,000	86	26,300	76	17,100	56						
690	13000	13 4	38,500	110	35,500	105	32,000	98	27,400	86	18,500	64				
717	13500	14 4	42,000	130	39,400	125	36,400	115	32,900	110	28,400	98	20,600	76		
743	14500	15 5	45,500	150	43,000	145	40,500	135	37,400	130	34,000	120	29,600	110		

Single Inlet

6½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
69	1400	0.155	4,540	0.155												
78	1600	0.202	6,210	0.265												
88	1800	0.256	7,680	0.405	4,380	0.265										
98	2000	0.316	8,980	0.61	6,620	0.46										
108	2200	0.383	10,300	0.82	8,320	0.68	5,280	0.485								
118	2400	0.456	11,500	1.10	9,850	0.95	7,630	0.76								
127	2600	0.534	12,600	1.40	11,200	1.25	9,400	1.10	6,910	0.86						
137	2800	0.620	13,800	1.75	12,600	1.65	11,000	1.45	9,080	1.25	6,120	0.92				
147	3000	0.712	15,000	2.30			12,400	1.85	10,900	1.65	8,830	1.40	4,900	0.92		
157	3200	0.810	16,200	2.75			13,800	2.40	12,500	2.15	10,800	1.90	8,650	1.60		
167	3400	0.914	17,400	3.10			15,200	2.95	14,000	2.70	12,400	2.40	10,800	2.20	8,650	1.85
176	3600	1.02	18,500	4.00					15,400	3.20	13,900	3.00	12,500	2.80	11,000	2.50
186	3800	1.14	19,700	4.75					16,700	4.05	15,600	3.75	14,200	3.50	12,900	3.20
196	4000	1.27	20,700	5.5							16,900	4.6	15,900	4.25	14,600	3.95
206	4200	1.39	21,900	6.4							18,300	5.5	17,300	5.2	16,200	4.75
216	4400	1.53	23,000	7.4							19,700	6.4	18,700	6.1	17,700	5.7
225	4600	1.67	24,200	8.5									20,100	7.2	19,100	6.8
235	4800	1.82	25,300	9.8									21,400	8.3	20,500	7.9
245	5000	1.98	26,400	11											21,900	9.3

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
176	3600	1.02	8,720	2.15												
186	3800	1.14	11,200	2.90												
196	4000	1.27	13,000	3.05	9,350	2.85										
206	4200	1.39	15,000	4.5	12,000	3.80										
216	4400	1.53	16,600	5.4	14,100	4.75	10,500	3.8								
225	4600	1.67	18,200	6.4	15,900	5.8	13,200	5.0	7,920	3.45						
235	4800	1.82	19,600	7.5	17,500	6.8	15,200	6.1	12,100	5.2						
245	5000	1.98	21,000	8.8	18,800	7.9	17,000	7.3	14,600	6.5	10,800	5.2				
257	5250	2.18	22,700	10.5	21,000	9.6	19,200	8.9	17,100	8.2	14,500	7.2				
269	5500	2.39	24,400	12.5	22,900	11.5	21,200	10.5	19,300	10.0	17,200	9.1	9,440	6.6		
282	5750	2.61			24,600	13.5	23,000	12.5	21,400	12.0	19,500	11.0	14,600	8.9		
294	6000	2.85			26,300	16	24,900	15.0	23,100	14.0	21,600	13.0	17,600	11.5	9,600	7.3
306	6250	3.09					26,600	17.5	25,200	16.5	23,700	15.5	20,200	13.5	15,400	11.5
318	6500	3.33					28,300	20	27,000	19	25,500	18.0	22,300	16	18,600	14
330	6750	3.60					30,000	23	28,800	22	27,400	20.5	24,600	19	21,200	17
340	7000	3.88							30,500	25	29,300	24	26,600	22	23,500	20
354	7250	4.15							32,200	29	30,900	27	28,500	25	25,700	23
368	7500	4.45									32,700	31	30,300	28	27,700	26
379	7750	4.75									34,400	35	32,200	32	29,700	30
392	8000	5.06											33,800	37	31,700	34
403	8250	5.38											35,600	41	33,400	38
417	8500	5.71											37,400	46	35,000	43
428	8750	6.05											39,000	50	37,000	48
441	9000	6.41													38,700	52

Single Inlet **6½' Steel Plate Fan—Design 2—Cont'd** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
318	6500	3 33	10,600	9 3												
330	6750	3 60	16,600	14 0												
343	7000	3 88	19,800	17 5	13,200	13 0										
354	7250	4 15	22,500	21	18,100	17 5										
368	7500	4 45	24,800	21	21,400	21 5										
379	7750	4 75	27,000	28	24,100	26	12,500	15 5								
392	8000	5 06	29,200	32	26,400	29	18,800	23								
403	8250	5 37	31,100	36	28,700	34	22,200	28								
417	8500	5 71	33,200	40	30,700	38	25,100	32	13,700	21						
428	8750	6 05	35,000	45	32,700	42	27,800	37	20,000	30						
441	9000	6 41	36,900	50	34,700	47	30,000	42	23,700	36						
465	9500	7 14	40,400	62	38,300	58	34,400	52	29,600	47	22,800	39				
490	10000	7 91	43,800	74	42,000	70	38,400	64	34,200	60	29,200	52	21,300	42		
515	10500	8 72			45,600	84	42,300	78	38,500	72	31,400	66	29,200	58	19,800	44
539	11000	9 57			49,200	100	45,700	92	42,500	86	38,800	80	34,600	74	29,000	64
563	11500	10 5					49,200	110	46,000	105	42,800	96	39,300	90	34,900	82
588	12000	11 4					52,700	130	49,600	120	46,700	110	43,600	105	39,700	100
613	12500	12 4							53,200	140	50,500	130	47,300	125	44,200	120
637	13000	13 4							56,600	160	54,100	155	51,300	145	48,300	140
662	13500	14 4							60,200	185	57,600	175	55,000	165	52,200	160
687	11000	15 5									61,200	200	58,600	190	55,900	180

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
539	11000	9 57	18,900	47												
563	11500	10 5	20,400	72	18,600	52										
588	12000	11 4	35,500	90	29,800	80	19,100	58								
613	12500	12 4	40,100	110	36,300	100	30,700	90	20,000	66						
637	13000	13 1	41,900	130	41,500	120	37,400	115	31,900	100	21,600	76				
662	13500	11 4	49,100	150	46,000	145	42,500	135	38,400	125	33,100	115	24,100	90		
687	14000	15 5	53,200	175	50,200	170	47,200	160	43,700	150	39,700	140	34,500	125		

Single Inlet

7' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 4.34 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
64	1400	0.155	5,280	0.18												
73	1600	0.202	7,230	0.31												
82	1800	0.256	8,940	0.47	5,090	0.31										
91	2000	0.316	10,400	0.71	7,700	0.53										
100	2200	0.383	11,900	0.95	9,660	0.79	6,140	0.56								
109	2400	0.456	13,400	1.25	11,500	1.10	8,860	0.89								
118	2600	0.531	14,700	1.65	13,000	1.45	10,900	1.25	8,050	0.99						
127	2800	0.620	16,100	2.05	14,600	1.9	12,700	1.65	10,600	1.45	7,120	1.10				
136	3000	0.712	17,500	2.65			14,500	2.20	12,700	1.90	10,300	1.65	5,700	1.05		
145	3200	0.810	18,800	3.20			16,100	2.75	14,500	2.50	12,500	2.20	10,100	1.85		
155	3400	0.914	20,200	3.95			17,700	3.45	16,200	3.15	14,400	2.80	12,600	2.55	10,100	2.15
164	3600	1.02	21,500	4.65					17,900	3.75	16,900	3.50	14,600	3.25	12,800	2.90
173	3800	1.14	22,900	5.5					19,400	4.75	18,100	4.35	16,500	4.05	15,000	3.75
182	4000	1.27	24,100	6.4							19,700	5.3	18,400	4.95	16,900	4.60
191	4200	1.39	25,400	7.5							21,300	6.4	20,100	6.0	18,800	5.5
200	4400	1.53	26,800	8.7							22,900	7.5	21,800	7.1	20,600	6.6
209	4600	1.67	28,100	9.9									23,300	8.3	22,200	7.9
218	4800	1.82	29,400	11.5									24,800	9.6	23,800	9.2
227	5000	1.98	30,700	13											25,500	11

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.46 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
164	3600	1.02	10,100	2.56												
173	3800	1.14	13,000	3.35												
182	4000	1.27	15,400	4.25	10,900	3.3										
191	4200	1.39	17,400	5.2	14,000	4.4										
200	4400	1.53	19,300	6.3	16,400	5.5	12,200	4.45								
209	4600	1.67	21,100	7.5	18,500	6.7	15,400	5.8	9,210	4.0						
218	4800	1.82	22,800	8.8	20,400	7.9	17,700	7.1	14,100	6.0						
228	5000	1.98	24,400	10.0	21,800	9.2	19,800	8.5	17,000	7.6	12,600	6.1				
239	5250	2.18	26,400	12.5	24,500	11.0	22,300	10.5	19,800	9.5	16,800	8.4				
250	5500	2.39	28,400	14.5	26,600	13.5	24,600	12.5	22,500	11.5	20,000	10.5	11,000	7.6		
261	5750	2.61			28,600	16.0	26,700	14.5	24,800	14	22,700	13.0	16,900	10.5		
273	6000	2.85			30,600	18.5	29,000	17.5	26,900	16	25,100	15.5	20,500	13	11,200	8.5
284	6250	3.09					31,000	20.5	29,300	19	27,500	18.0	23,400	16	17,900	13.0
296	6500	3.33					32,900	23.5	31,400	22	29,700	21.0	26,000	19	21,600	16.5
307	6750	3.60					34,900	27	33,500	25	31,800	24	28,600	22	24,600	19.5
318	7000	3.88							35,500	29	34,000	28	30,900	25	27,400	23
330	7250	4.15							37,400	33	35,900	31	33,100	29	29,800	27
341	7500	4.45									38,000	36	35,200	33	32,300	31
352	7750	4.75									40,000	41	37,400	37	34,500	35
364	8000	5.06											39,400	43	36,800	39
375	8250	5.38											41,500	47	38,900	44
386	8500	5.71											43,500	52	40,800	50
397	8750	6.05											45,400	58	43,000	56
409	9000	6.41													45,000	60

Single Inlet

7' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.04 ozs. per sq. inch		Static Pressure 8″ Water 4.62 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
296	6500	3 33	12,400	11 0												
307	6750	3 60	19,200	16 5												
318	7000	3 88	23,000	20	15,400	15 0										
330	7250	4 15	26,100	24	21,000	20 5										
341	7500	4 45	28,800	28	24,900	25										
352	7750	4 75	31,300	32	28,000	30	14,600	18								
364	8000	5 06	33,900	37	30,700	34	21,800	27								
375	8250	5 37	36,100	41	33,400	39	25,800	32								
386	8500	5 71	38,600	47	35,700	44	29,200	37	16,000	24						
397	8750	6 05	40,600	52	37,900	49	32,300	43	23,200	34						
409	9000	6 41	42,800	58	40,200	54	34,800	49	27,600	42						
432	9500	7 14	46,900	78	44,400	68	40,000	62	34,500	54	26,500	45				
455	10000	7 91	50,900	86	48,800	82	44,500	74	39,800	68	33,900	60	24,800	48		
478	10500	8 72			53,000	98	49,100	92	44,800	84	40,000	76	33,900	68	23,000	50
500	11000	9 57			57,200	115	53,200	105	49,400	100	45,100	92	40,200	86	33,800	74
523	11500	10 5					57,200	125	53,500	120	49,700	110	45,600	105	40,500	94
547	12000	11 4					61,200	150	57,600	140	54,300	130	50,700	125	46,100	115
568	12500	12 4							61,800	160	58,600	155	55,000	145	51,300	135
592	13000	13 4							65,800	185	62,800	180	59,600	170	56,100	160
615	13500	14 4							70,000	220	67,000	205	63,800	195	60,600	185
637	14000	15 5									71,100	235	68,100	225	65,000	210

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
500	11000	9 57	22,000	54												
523	11500	10 5	34,100	84	21,600	60										
547	12000	11 4	41,300	105	34,600	94	22,200	68								
568	12500	12 4	47,000	130	42,200	120	35,700	105	23,200	76						
592	13000	13 4	52,200	150	48,200	140	43,500	130	37,100	120	25,200	88				
615	13500	14 4	57,100	175	53,500	170	49,500	160	44,700	145	38,500	130	28,000	105		
637	14000	15 5	61,900	205	58,400	195	54,900	185	50,900	175	46,100	165	40,100	145		

Single Inlet **Single Width**

7½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
59	1400	0.155	6,060	0.205												
68	1600	0.202	8,290	0.355												
77	1800	0.256	10,300	0.54	5,830	0.355										
85	2000	0.316	12,000	0.82	8,850	0.61										
91	2200	0.383	13,700	1.10	11,100	0.91	7,060	0.65								
102	2400	0.456	15,400	1.45	13,200	1.25	10,200	1.00								
111	2600	0.531	16,900	1.90	15,000	1.70	12,600	1.45	9,270	1.15						
119	2800	0.620	18,500	2.35	16,800	2.2	14,700	1.90	12,200	1.65	8,170	1.25				
127	3000	0.712	20,100	3.05			16,700	2.50	14,600	2.20	11,800	1.90	6,550	1.25		
136	3200	0.810	21,600	3.70			18,500	3.20	16,600	2.85	14,400	2.55	11,600	2.15		
144	3400	0.914	23,200	4.55			20,300	3.95	18,700	3.60	16,600	3.25	14,500	2.90	11,600	2.50
153	3600	1.02	24,700	5.4					20,600	4.30	18,600	4.05	16,700	3.75	14,700	3.35
161	3800	1.14	26,300	6.3					22,400	5.4	20,800	5.0	19,000	4.65	17,300	4.3
170	4000	1.27	27,700	7.4							22,600	6.1	21,200	5.7	19,500	5.3
178	4200	1.39	29,200	8.6							24,100	7.3	23,100	6.9	21,600	6.4
187	4400	1.53	30,800	9.9							26,300	8.6	25,100	8.1	23,600	7.6
195	4600	1.67	32,300	11.5									26,800	9.6	25,600	9.0
204	4800	1.82	33,800	13									28,600	11	27,400	10.5
212	5000	1.98	35,300	15											29,300	12.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
153	3600	1.02	11,700	2.85												
161	3800	1.14	15,500	3.85												
170	4000	1.27	17,700	4.9	12,500	3.8										
178	4200	1.39	20,000	6.0	16,100	5.1										
187	4400	1.53	22,200	7.2	18,800	6.3	14,100	5.1								
195	4600	1.67	24,300	8.6	21,200	7.7	17,700	6.7	10,600	4.6						
204	4800	1.82	26,200	10.0	23,400	9.1	20,400	8.2	16,200	6.9						
212	5000	1.98	28,100	11.5	25,200	10.5	22,800	9.8	19,500	8.7	14,500	7.0				
223	5250	2.18	30,400	14.0	28,200	13.0	25,600	12.0	22,800	11.0	19,400	9.7				
233	5500	2.39	32,000	16.5	30,600	15.5	28,400	14.5	25,800	13.5	23,000	12.0	12,600	8.8		
244	5750	2.61			32,800	18	30,700	17.0	28,600	16.0	26,100	15.0	19,500	12.0		
255	6000	2.85			35,200	21	33,300	20.0	30,900	18.5	28,900	17.5	23,600	15.0	12,800	9.7
265	6250	3.09					35,600	23.5	33,700	22	31,700	21	27,000	18.5	20,600	15.0
276	6500	3.33					37,900	27	36,200	26	34,100	24	29,800	21.5	24,800	19.0
287	6750	3.60					40,100	31	38,500	29	36,000	28	32,800	25	28,400	22.5
297	7000	3.88							40,800	34	39,200	32	35,500	29	31,400	27
307	7250	4.15							43,000	38	41,300	36	38,100	33	34,300	31
318	7500	4.45									43,700	42	40,500	38	37,100	35
328	7750	4.75									46,000	47	43,000	43	39,700	40
340	8000	5.06											45,300	49	42,300	45
350	8250	5.38											47,500	54	44,700	50
361	8500	5.71											50,000	60	46,900	58
371	8750	6.05											52,100	66	49,500	64
382	9000	6.41													51,700	70

Single Inlet

7½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
276	6500	3 33	11,200	12 5												
287	6750	3 60	22,200	19 0												
297	7000	3 88	26,500	23 5	17,700	17 5										
307	7250	4 15	30,100	28	24,200	23 5										
318	7500	4 45	33,200	32	28,600	29										
328	7750	4 75	36,000	37	32,200	34	16,800	21								
340	8000	5 06	39,000	42	35,400	39	25,100	30								
350	8250	5 37	41,600	48	38,400	45	29,700	37								
361	8500	5 71	44,400	54	41,100	50	33,600	43	18,400	28						
371	8750	6 05	46,700	60	43,700	56	37,200	50	26,800	40						
382	9000	6 41	49,300	66	46,300	61	40,100	56	31,800	48						
403	9500	7 14	54,000	82	51,200	78	46,000	70	39,600	62	30,500	52				
425	10000	7 91	58,600	100	56,200	94	51,200	86	45,800	78	39,100	70	28,600	56		
447	10500	8 72			61,000	115	56,500	105	51,600	96	46,000	88	39,100	78	26,500	58
468	11000	9 57			65,700	135	61,200	125	56,800	115	51,800	105	46,300	98	38,800	86
488	11500	10 5					65,800	145	61,500	140	57,200	125	52,500	120	46,600	110
510	12000	11 4					70,500	170	66,400	160	62,500	150	58,300	140	53,100	135
531	12500	12 4							71,100	185	67,500	175	63,300	165	59,000	160
552	13000	13 4							75,800	215	72,300	205	68,600	195	64,600	185
571	13500	14 4							80,600	250	77,000	235	73,500	220	69,800	210
595	14000	15 5									81,800	270	78,300	255	74,800	245

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water .00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
468	11000	9 57	25,300	62												
488	11500	10 5	39,300	96	24,800	68										
510	12000	11 4	47,500	120	39,800	110	25,600	78								
531	12500	12 4	54,000	145	48,500	135	41,100	120	26,700	88						
552	13000	13 4	60,000	175	55,500	165	50,000	150	42,700	135	29,000	100				
574	13500	14 4	65,700	205	61,500	195	57,000	180	51,400	170	44,300	150	32,200	120		
595	14000	15 5	71,100	235	67,100	225	63,100	215	58,500	200	53,100	185	46,100	170		

Single Inlet

8' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
56	1400	0.155	6,920	0.235												
64	1600	0.202	9,480	0.405												
72	1800	0.256	11,700	0.61	6,660	0.405										
79	2000	0.316	13,700	0.94	10,100	0.70										
87	2200	0.383	15,600	1.25	12,700	1.05	8,050	0.74								
96	2400	0.456	17,500	1.65	15,000	1.45	11,600	1.15								
103	2600	0.534	19,200	2.15	17,100	1.9	14,300	1.65	10,600	1.30						
111	2800	0.620	21,100	2.7	19,200	2.5	16,700	2.2	13,800	1.90	9,330	1.40				
119	3000	0.712	23,000	3.5			19,000	2.85	16,600	2.50	13,500	2.15	7,460	1.40		
127	3200	0.810	24,600	4.2			21,000	3.6	19,000	3.25	16,400	2.9	13,200	2.45		
135	3400	0.914	26,500	5.2			23,200	4.5	21,300	4.1	18,900	3.7	16,500	3.35	13,200	2.80
143	3600	1.02	28,200	6.1					23,400	4.9	21,200	4.6	19,100	4.25	16,800	3.85
151	3800	1.14	30,000	7.2					25,500	6.2	23,700	5.7	21,600	5.3	19,700	4.9
159	4000	1.27	31,600	8.5							25,800	7.0	24,200	6.5	22,200	6.1
167	4200	1.39	33,400	9.8							27,900	8.3	26,400	7.9	24,600	7.2
175	4400	1.53	35,200	11.5							30,000	9.8	28,500	9.2	27,000	8.7
183	4600	1.67	36,900	13									30,500	11.0	29,200	10.5
191	4800	1.82	38,600	15									32,500	12.5	31,300	12
199	5000	1.98	40,300	17											33,400	14

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
143	3600	1.02	13,300	3.25												
151	3800	1.14	17,100	4.4												
159	4000	1.27	20,200	5.6	14,200	4.35										
167	4200	1.39	22,800	6.9	18,300	5.8										
175	4400	1.53	25,300	8.2	21,500	7.2	16,000	5.8								
183	4600	1.67	27,700	9.8	24,200	8.8	20,200	7.7	12,100	5.3						
191	4800	1.82	29,800	11.5	26,700	10.5	23,200	9.4	18,400	7.9						
199	5000	1.98	32,000	13.5	28,700	12.0	26,000	11.0	22,300	9.9	16,500	8				
209	5250	2.18	34,600	16	32,100	14.5	29,200	13.5	26,000	12.5	22,100	11				
219	5500	2.39	37,200	19	34,900	17.5	32,300	16.5	29,500	15.0	26,300	14	14,400	10.0		
229	5750	2.61			37,400	21	35,000	19	32,000	18	29,800	17	22,200	13.5		
239	6000	2.85			40,100	24	38,000	23	35,300	21	33,000	20	26,900	17.5	14,600	11
249	6250	3.09					40,700	27	38,400	25	36,100	24	30,800	21.0	23,400	17
258	6500	3.33					43,200	31	41,200	29	38,900	27	34,000	24.5	28,300	21
268	6750	3.60					45,800	35	44,000	33	41,800	32	37,400	29	32,300	26
278	7000	3.88							46,500	38	44,600	37	40,500	33	35,900	30
288	7250	4.15							49,000	44	47,100	41	43,400	38	39,200	35
298	7500	4.45									49,800	48	46,200	43	42,300	40
308	7750	4.75									52,500	54	49,000	49	45,300	45
318	8000	5.06											51,600	56	48,300	52
328	8250	5.38											54,300	62	51,000	58
338	8500	5.71											57,000	70	53,500	66
348	8750	6.05											59,500	76	56,500	72
358	9000	6.41													59,000	80

Single Inlet **8' Steel Plate Fan—Design 2—Cont'd** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
258	6500	3 33	16,200	14 0												
268	6750	3 60	25,200	21 5												
278	7000	3 88	30,200	27	20,200	20										
288	7250	4 15	34,300	32	27,600	27										
298	7500	4 45	37,800	37	32,600	33										
308	7750	4 75	41,200	43	36,800	39	19,100	24								
318	8000	5 06	44,500	48	40,300	45	28,600	35								
328	8250	5 37	47,500	54	43,800	52	33,000	42								
338	8500	5 71	50,600	62	46,800	58	38,400	49	21,000	32						
348	8750	6 05	53,300	68	49,800	64	42,400	56	30,500	45						
358	9000	6 41	56,200	76	52,800	72	45,800	64	36,200	54						
378	9500	7 14	61,600	94	58,400	88	52,500	80	45,200	72	34,800	60				
398	10000	7 91	67,000	115	64,000	110	58,500	98	52,200	90	44,500	80	32,600	64		
418	10500	8 72			69,500	130	64,500	120	58,800	110	52,500	100	44,500	90	30,300	66
438	11000	9 57			75,000	150	69,800	140	64,700	130	59,200	120	52,700	110	44,300	98
458	11500	10 5					75,100	165	70,100	155	65,300	145	59,800	135	53,200	125
478	12000	11 4					80,300	195	75,600	185	71,300	170	66,500	160	60,500	150
498	12500	12 4							81,100	210	77,000	200	72,200	190	67,300	180
518	13000	13 4							86,400	245	82,500	235	78,300	220	73,600	210
538	13500	14 4							92,000	285	87,800	270	83,800	255	79,500	240
558	14000	15 5									93,300	310	89,300	290	85,300	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch	
438	11000	9 57	28,900	72												
458	11500	10 5	41,800	110	28,300	78										
478	12000	11 4	54,200	140	45,400	125	29,200	88								
498	12500	12 4	61,500	170	55,400	155	46,900	135	30,500	100						
518	13000	13 4	68,500	200	63,200	185	57,000	175	48,700	155	33,000	115				
538	13500	14 4	74,900	230	70,100	220	64,800	210	58,600	190	50,500	175	36,700	135		
558	14000	15 5	81,100	265	76,500	255	72,000	245	66,600	230	60,500	215	52,600	195		

Single Inlet # 8½' Steel Plate Fan—Design 2 **Single Widt**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Press ⅞" Water .506 ozs. p sq. inch	
52	1400	0.155	7,760	0.265												
60	1600	0.202	10,700	0.455												
68	1800	0.256	13,200	0.69	7,490	0.455										
75	2000	0.316	15,400	1.05	11,300	0.79										
82	2200	0.383	17,600	1.40	14,300	1.15	9,050	0.83								
90	2400	0.456	19,600	1.85	16,900	1.60	13,100	1.30								
97	2600	0.534	21,600	2.40	19,200	2.15	16,100	1.85	11,900	1.45						
105	2800	0.620	23,700	3.00	21,500	2.8	18,800	2.45	15,500	2.10	10,500	1.60				
112	3000	0.712	25,800	3.90			21,300	3.20	18,700	2.80	15,100	2.40	8,390	1.60		
120	3200	0.810	27,700	4.75			23,600	4.05	21,300	3.65	18,500	3.25	11,800	2.75		
127	3400	0.914	29,700	5.9			26,100	5.1	23,900	4.6	21,200	4.15	18,500	3.75	14,800	3
135	3600	1.02	31,700	6.9					26,300	5.5	23,800	5.2	21,400	4.8	18,900	4
142	3800	1.14	33,700	8.1					28,600	7	26,700	6.4	24,300	6.0	22,100	5
150	4000	1.27	35,500	9.5							29,000	7.8	27,100	7.3	24,900	6
157	4200	1.39	37,500	11.0							31,400	9.4	29,600	8.9	27,700	8
165	4400	1.53	39,500	13.0							33,700	11	32,000	10.5	30,300	9
172	4600	1.67	41,400	14.5									34,400	12.5	32,800	11
180	4800	1.82	43,800	16.5									36,600	14	35,200	13
187	5000	1.98	45,200	19											37,500	16

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq.inch		Static Pressure 1¼" Water .723 per ozs. sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. por sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pessu 3" Water 1.73 ozs. pe sq. inch	
135	3600	1.02	14,900	3.65												
142	3800	1.14	19,200	4.95												
150	4000	1.27	22,700	6.3	16,000	4.65										
157	4200	1.39	25,600	7.7	20,600	6.5										
165	4400	1.53	28,400	9.2	24,100	8.1	18,000	6.6								
172	4600	1.67	31,100	11.0	27,200	9.8	22,700	8.6	13,600	5.9						
180	4800	1.82	33,500	13.0	30,000	11.5	26,100	10.5	20,700	8.9						
187	5000	1.98	36,000	15.0	32,200	13.5	29,200	12.5	25,000	11.0	18,500	9.0				
197	5250	2.18	38,900	18.0	36,000	16.5	32,800	15.5	29,300	14.0	24,800	12.5				
206	5500	2.39	41,800	21.5	39,200	20	36,300	18.5	33,100	17.0	29,500	15.5	16,200	11.0		
215	5750	2.61			42,000	23	39,300	21.5	36,600	20.5	33,400	19.0	25,000	15.5		
225	6000	2.85			45,100	27	42,700	26	39,600	24	37,000	22.5	30,200	19.5	16,500	12
234	6250	3.09					45,600	30	43,200	28	40,500	27	34,500	23.5	26,300	19
242	6500	3.33					48,500	35	46,500	33	43,700	31	38,200	28	31,800	21
253	6750	3.60					51,400	40	49,300	38	47,000	36	42,000	32	36,300	29
262	7000	3.88							52,200	43	50,100	41	45,500	37	40,300	34
271	7250	4.15							55,000	49	52,900	46	48,800	43	44,000	40
281	7500	4.45									56,000	54	51,900	48	47,500	45
290	7750	4.75									58,900	60	55,000	56	50,800	52
299	8000	5.06											58,000	62	54,300	58
308	8250	5.38											61,000	70	57,300	64
318	8500	5.71											64,000	78	60,000	74
327	8750	6.05											66,800	86	63,500	82
337	9000	6.41													66,300	90

Single Inlet 8½' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
242	6500	3 33	18,200	16												
253	6750	3 60	28,100	24												
262	7000	3 88	33,900	30	22,600	22										
271	7250	4 15	38,500	36	31,000	30										
281	7500	4 45	42,500	42	36,600	37										
290	7750	4 75	46,200	48	41,300	44	21,500	27								
299	8000	5 06	50,000	54	45,300	50	32,100	39								
308	8250	5 37	53,300	60	49,200	58	38,100	47								
318	8500	5 71	56,900	68	52,600	64	43,100	56	23,600	35						
327	8750	6 05	59,800	76	56,000	72	47,600	64	34,200	56						
337	9000	6 41	63,100	86	59,300	80	51,400	72	40,700	62						
356	9500	7 14	69,200	105	65,600	98	58,900	90	50,800	80	39,100	66				
374	10000	7 91	75,100	125	72,000	120	65,700	110	58,700	100	50,000	90	36,600	70		
394	10500	8 72			78,100	145	72,400	135	66,000	125	58,900	110	50,000	100	34,000	75
412	11000	9 57			84,300	170	78,400	160	72,700	145	66,500	135	59,300	125	49,700	110
431	11500	10 5					84,400	185	78,700	175	73,300	165	67,200	155	59,700	140
450	12000	11 4					90,200	220	85,000	205	80,000	190	74,700	180	68,000	170
468	12500	12 4							91,100	240	86,400	225	81,000	210	75,500	200
487	13000	13 4							97,000	275	92,600	260	87,900	250	82,600	235
507	13500	14 4							103,000	320	98,700	305	94,100	285	89,200	270
525	14000	15 5									105,000	345	100,000	330	95,800	310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
412	11000	9 57	32,400	80												
431	11500	10.5	50,300	125	31,800	88										
450	12000	11 4	60,800	155	51,000	140	32,800	98								
468	12500	12 4	69,200	190	62,200	175	52,600	155	34,200	110						
487	13000	13 4	76,900	225	71,000	210	64,000	195	54,600	175	37,100	130				
507	13500	14 4	84,100	260	78,800	250	72,900	235	65,800	215	56,700	195	41,200	150		
525	14000	15 5	91,100	300	86,000	285	80,900	275	74,800	255	68,000	240	59,100	215		

Single Inlet **Single Width**

9' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛″ Water .072 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ⅝″ Water .361 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure ⅞″ Water .506 ozs. per sq. inch	
50	1400	0.155	8,740	0.295												
57	1600	0.202	12,000	0.51												
64	1800	0.256	14,800	0.78	8,410	0.51										
71	2000	0.316	17,300	1.2	12,700	0.88										
78	2200	0.383	19,700	1.6	16,000	1.30	10,200	0.93								
85	2400	0.456	22,100	2.1	19,000	1.80	14,700	1.45								
92	2600	0.534	24,300	2.7	21,600	2.40	18,100	2.05	13,300	1.65						
99	2800	0.620	27,200	3.4	24,200	3.15	21,400	2.75	17,500	2.35	11,800	1.80				
106	3000	0.712	29,000	4.4			23,900	3.60	21,000	3.15	17,000	2.70	9,430	1.75		
113	3200	0.810	31,100	5.4			26,600	4.55	23,900	4.1	20,700	3.65	16,600	3.1		
120	3400	0.914	33,400	6.5			29,300	5.7	26,900	5.2	23,900	4.65	20,800	4.2	16,600	3.55
127	3600	1.02	35,600	7.7					29,600	6.2	26,800	5.8	24,100	5.1	21,200	4.85
134	3800	1.14	37,900	9.1					32,200	7.8	29,900	7.2	27,400	6.7	24,900	6.0
141	4000	1.27	39,900	10.5							32,600	8.8	30,500	8.2	28,000	7.7
149	4200	1.39	42,200	12.5							35,200	10.5	33,300	10.0	31,100	9.2
155	4400	1.53	44,400	14.5							37,900	12.5	36,000	11.5	34,100	11.0
163	4600	1.67	46,600	16.5									38,600	14	36,800	13.0
170	4800	1.82	48,700	19.0									41,100	16	39,500	15.5
179	5000	1.98	50,800	21.5											42,200	18

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .723 ozs. per sq. inch		Static Pressure 1½″ Water .866 ozs. per sq. inch		Static Pressure 1¾″ Water 1.01 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch	
127	3600	1.02	16,800	4.1												
134	3800	1.14	21,600	5.5												
141	4000	1.27	25,500	7.1	18,000	5.5										
149	4200	1.39	28,800	8.6	23,100	7.3										
155	4400	1.53	31,900	10.5	27,100	9.1	20,300	7.4								
163	4600	1.67	35,000	12.5	30,600	11.0	25,500	9.7	15,200	6.6						
170	4800	1.82	37,700	14.5	33,700	13.0	29,400	12.0	23,200	10.0						
177	5000	1.98	40,400	17.0	36,200	15.0	32,800	14.0	28,100	12.5	20,800	10.0				
186	5250	2.18	43,800	20.5	40,500	18.5	36,800	17.0	32,900	16	27,900	14.0				
194	5500	2.39	47,000	24	44,000	22	40,800	20.5	37,200	19	33,200	17.5	18,200	12.5		
204	5750	2.61			47,300	26	44,200	24	41,100	23	37,600	21.5	28,000	17		
212	6000	2.85			50,700	31	48,000	29	44,500	27	41,600	25	34,000	22	18,500	14
221	6250	3.09					51,300	34	48,500	32	45,600	30	38,800	26	29,600	22
230	6500	3.33					54,500	39	52,000	37	49,100	35	43,000	31	35,800	27
239	6750	3.60					57,800	45	55,500	42	52,700	40	47,300	37	40,800	33
248	7000	3.88							58,700	49	56,400	46	51,200	42	45,300	38
256	7250	4.15							62,000	56	59,500	52	54,800	48	49,500	44
266	7500	4.45									62,900	60	58,300	54	53,500	50
274	7750	4.75									66,200	68	62,000	62	57,100	58
283	8000	5.06											65,200	70	61,000	64
291	8250	5.38											68,500	78	64,400	72
301	8500	5.71											72,000	88	67,500	82
300	8750	6.05											75,000	96	71,400	92
319	9000	6.41													74,500	100

Single Inlet

9' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.04 ozs. per sq. inch		Static Pressure 8″ Water 4.62 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
230	6500	3.33	20,500	18												
239	6750	3.60	31,900	27												
248	7000	3.88	38,100	34	25,400	25										
256	7250	4.15	43,300	40	34,800	34										
266	7500	4.45	47,700	47	41,200	42										
274	7750	4.75	51,900	54	46,400	50	21,200	30								
283	8000	5.06	56,200	60	50,800	56	36,100	44								
291	8250	5.37	59,900	68	55,300	64	42,800	54								
301	8500	5.71	63,900	78	59,100	72	48,400	62	26,500	40						
309	8750	6.05	67,300	86	62,800	80	53,500	72	38,500	56						
319	9000	6.41	71,000	96	66,800	90	57,700	80	45,800	68						
336	9500	7.14	77,800	120	73,600	110	66,200	100	57,100	90	43,800	74				
354	10000	7.91	84,500	145	80,900	135	73,800	125	66,000	115	56,200	100	41,100	80		
372	10500	8.72			87,800	165	81,400	150	74,200	140	66,200	125	56,200	110	38,200	84
389	11000	9.57			94,700	190	88,100	175	81,700	165	71,700	155	66,600	140	55,900	125
407	11500	10.5					94,800	210	88,600	200	82,400	185	75,500	170	67,100	155
424	12000	11.4					102,000	245	95,500	230	90,000	215	83,900	205	76,300	190
442	12500	12.4							102,000	270	97,000	250	91,100	240	85,000	225
460	13000	13.4							109,000	310	104,000	295	98,700	280	93,000	265
477	13500	14.4							116,000	360	111,000	340	106,000	320	100,000	305
495	14000	15.5									118,000	390	113,000	370	108,000	350

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
389	11000	9.57	36,400	90												
407	11500	10.5	56,500	110	35,800	98										
424	12000	11.4	68,400	175	57,300	155	36,800	110								
442	12500	12.4	77,800	210	69,900	195	59,100	175	38,500	125						
460	13000	13.4	86,500	250	79,800	235	72,000	220	61,500	195	41,700	145				
477	13500	14.4	94,500	290	88,500	280	82,000	260	74,000	240	63,800	220	46,300	170		
495	14000	15.5	102,000	340	96,500	320	90,900	310	84,000	290	76,400	270	66,400	245		

Single Inlet **Single Width**

9½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
47	1400	0.155	9,750	0.33												
54	1600	0.202	13,400	0.57												
60	1800	0.256	16,500	0.87	9,400	0.57										
67	2000	0.316	19,300	1.35	14,200	0.59										
74	2200	0.383	22,100	1.75	17,900	1.45	11,400	1.05								
80	2400	0.456	24,700	2.35	21,200	2.05	16,400	1.65								
87	2600	0.534	27,200	3.05	24,100	2.7	20,200	2.3	14,900	1.85						
94	2800	0.620	29,800	3.80	27,000	3.5	23,600	3.1	19,500	2.65	13,200	2.00				
100	3000	0.712	32,400	4.90			26,800	4.0	23,500	3.55	19,000	3.05	10,500	2.00		
107	3200	0.810	34,800	6.0			29,700	5.1	26,700	4.6	23,200	4.1	18,600	3.45		
114	3400	0.914	37,400	7.4			32,700	6.4	30,000	5.8	26,700	5.2	23,300	4.7	18,600	4.0
120	3600	1.02	39,900	8.6					33,000	6.9	30,000	6.5	26,900	6.0	23,700	5.4
127	3800	1.14	42,300	10.0					36,000	8.8	33,400	8.1	30,500	7.5	27,800	6.9
134	4000	1.27	44,600	12.0							36,400	9.8	34,100	9.1	31,300	8.6
141	4200	1.39	47,100	14.0							39,300	12	37,200	11.0	34,800	10.0
147	4400	1.53	49,600	16.0							42,300	14	40,200	13.0	38,100	12.5
154	4600	1.67	52,000	18.5									43,200	15.5	41,100	14.5
161	4800	1.82	54,400	21									46,000	18	44,200	17
168	5000	1.98	56,800	24											47,200	20

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
120	3600	1.02	18,800	4.55												
127	3800	1.14	24,100	6.2												
134	4000	1.27	28,500	7.9	20,100	6.1										
141	4200	1.30	32,200	9.7	25,800	8.1										
147	4400	1.53	35,600	11.5	30,300	10.0	22,600	8.2								
154	4600	1.67	39,000	14	34,200	12.5	28,500	11	17,000	7.4						
161	4800	1.82	42,000	16	37,700	14.5	32,800	13	26,000	11.0						
167	5000	1.98	45,100	19	40,400	17.0	36,600	16	31,400	14.0	23,200	11.5				
176	5250	2.18	48,800	23	45,300	20.5	41,200	19	36,700	17.5	31,100	15.5				
184	5500	2.39	52,400	27	49,200	25	45,500	23	41,500	21.5	37,100	19.5	20,300	14.0		
193	5750	2.61			52,800	29	49,400	27	45,900	26	42,000	24	31,300	19.0		
201	6000	2.85			56,500	34	53,500	32	49,700	30	46,500	28	38,000	24.5	20,600	15.5
209	6250	3.09					57,300	38	54,200	35	50,900	33	43,300	29	33,000	24
218	6500	3.33					60,900	44	58,100	41	54,800	39	48,000	35	39,900	30
220	6750	3.60					64,500	50	62,000	47	59,000	45	52,800	41	45,600	36
234	7000	3.80							65,500	54	63,000	52	57,000	47	50,500	43
242	7250	4.15							69,100	62	66,400	58	61,200	54	55,200	50
251	7500	4.45									70,300	68	65,000	60	59,600	56
260	7750	4.75									74,000	76	69,100	70	63,800	64
268	8000	5.06											72,800	78	68,000	72
276	8250	5.38											76,500	88	72,000	82
285	8500	5.71											80,300	98	75,400	92
293	8750	6.05											83,900	105	79,500	100
301	9000	6.41													83,200	110

Single Inlet **Single Width**

9½' Steel Plate Fan—Design 2—Cont'd

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
218	6500	3.33	22,900	20												
226	6750	3.60	35,600	30												
234	7000	3.88	42,600	38	28,400	28										
242	7250	4.15	48,300	45	38,900	38										
251	7500	4.45	53,300	52	46,000	46										
260	7750	4.75	58,000	60	51,800	54	27,000	34								
268	8000	5.06	62,700	68	56,800	64	40,300	49								
276	8250	5.37	66,900	76	61,800	72	47,800	60								
285	8500	5.71	71,400	86	66,100	80	54,100	70	29,600	45						
293	8750	6.05	75,100	96	70,200	90	59,700	80	43,000	64						
301	9000	6.41	79,200	105	74,500	100	64,500	90	51,100	76						
318	9500	7.14	86,900	130	82,200	125	74,000	115	63,700	100	49,000	84				
335	10000	7.91	94,300	160	90,300	150	82,500	140	73,600	125	62,800	110	45,900	90		
352	10500	8.72			98,000	180	90,900	170	83,000	155	74,000	140	62,800	125	42,700	94
369	11000	9.57			106,000	215	98,300	200	91,300	185	83,400	170	74,400	160	62,400	140
385	11500	10.5					106,000	235	98,900	220	92,000	205	84,400	190	75,000	175
402	12000	11.4					113,000	275	107,000	260	100,000	240	93,800	230	85,300	215
418	12500	12.4							114,000	300	108,000	280	102,000	265	95,000	255
436	13000	13.4							122,000	345	116,000	330	110,000	310	104,000	295
452	13500	14.4							129,000	405	124,000	380	118,000	355	112,000	340
469	14000	15.5									131,000	435	126,000	410	120,000	390

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
369	11000	9.57	40,700	100												
385	11500	10.5	63,100	155	40,000	110										
402	12000	11.4	76,400	195	64,000	175	41,100	125								
418	12500	12.4	87,000	235	78,000	220	66,000	195	43,000	140						
436	13000	13.4	96,500	280	89,000	265	80,500	245	68,500	220	46,500	165				
452	13500	14.4	106,000	325	99,000	310	91,500	290	82,500	270	71,300	245	51,700	190		
469	14000	15.5	114,000	375	108,000	360	101,000	345	94,000	320	85,300	300	74,100	270		

Single Inlet **Single Width**

10' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 4.34 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
45	1400	0.155	10,800	0.365												
51	1600	0.202	14,800	0.64												
57	1800	0.256	18,300	0.96	10,400	0.64										
64	2000	0.316	21,300	1.45	15,700	1.10										
70	2200	0.383	24,400	1.95	19,800	1.60	12,500	1.45								
76	2400	0.456	27,200	2.60	23,400	2.25	18,100	1.80								
83	2600	0.534	29,900	3.35	26,600	3.0	22,300	2.55	16,500	2.05						
89	2800	0.620	32,900	4.20	29,800	3.9	26,000	3.40	21,600	2.9	14,500	2.20				
95	3000	0.712	35,700	5.4			29,600	4.45	25,900	3.9	21,000	3.35	11,600	2.2		
102	3200	0.810	38,400	6.6			32,800	5.6	29,500	5.1	25,600	4.5	20,500	3.8		
108	3400	0.914	41,300	8.1			36,100	7	33,200	6.4	29,500	5.7	25,700	5.2	20,500	4.4
115	3600	1.02	43,900	9.5					36,500	7.6	33,100	7.2	29,700	6.6	26,200	6.0
121	3800	1.14	46,800	11.0					39,700	9.7	37,000	8.9	33,700	8.3	30,700	7.6
127	4000	1.27	49,200	13.0							40,200	11.0	37,600	10.0	34,600	9.4
134	4200	1.39	52,000	15.0							43,500	13.0	41,000	12.5	38,400	11.5
140	4400	1.53	54,700	17.5							46,800	15.5	44,400	14.5	42,000	13.5
146	4600	1.67	57,400	20									47,600	17.0	45,500	16
153	4800	1.82	60,000	23									50,800	19.5	48,700	19
159	5000	1.98	62,700	26											52,000	22

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½' Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
115	3600	1.02	20,700	5.1												
121	3800	1.14	26,600	6.8												
127	4000	1.27	31,500	8.7	22,200	6.8										
134	4200	1.39	35,600	10.5	28,500	9.0										
140	4400	1.53	39,300	13.0	33,400	11.5	25,000	9.1								
146	4600	1.67	43,100	15.5	37,700	13.5	31,400	12.0	18,800	8.2						
153	4800	1.82	46,500	18	41,600	16.0	36,200	14.5	28,700	12.5						
159	5000	1.98	49,900	21	44,600	19	40,500	17.5	34,700	15.5	25,600	12.5				
167	5250	2.18	51,000	25	50,000	23	45,500	21	40,500	19.5	34,400	17.0				
175	5500	2.39	58,000	30	54,400	27	50,300	25	45,900	23.5	40,900	21.5	22,400	15.5		
183	5750	2.61			58,300	32	54,500	30	50,700	28	46,400	26	31,600	21		
191	6000	2.85			62,500	38	59,200	36	54,900	33	51,300	31	41,900	27	22,800	17.5
199	6250	3.09					63,300	42	59,900	39	56,300	37	47,900	32	36,300	27
207	6500	3.33					67,200	48	64,200	45	60,500	43	53,000	38	44,100	33
215	6750	3.60					71,200	56	68,400	52	65,000	49	58,300	45	50,300	40
223	7000	3.88							72,500	60	69,500	56	63,000	52	55,900	47
230	7250	4.15							76,400	68	73,300	64	67,600	60	61,000	54
239	7500	4.45									77,500	74	72,000	66	66,000	62
246	7750	4.75									81,600	84	76,400	76	70,500	70
255	8000	5.06											80,400	88	75,200	80
262	8250	5.38											84,500	96	79,400	90
271	8500	5.71											88,800	110	83,300	100
278	8750	6.05											92,600	120	88,000	115
286	9000	6.41													92,000	125

Single Inlet

10' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
207	6500	3 33	25,300	22												
215	6750	3 60	39,300	34												
223	7000	3 88	47,000	41	31,400	31										
230	7250	4 15	53,400	49	43,000	42										
239	7500	4 45	58,800	58	50,800	52										
246	7750	4 75	64,000	66	57,300	60	29,800	37								
255	8000	5 06	69,300	76	62,800	70	44,600	54								
262	8250	5 37	74,000	84	68,200	80	52,800	66								
271	8500	5 71	78,800	96	73,000	90	59,700	76	32,700	49						
278	8750	6 05	83,000	105	77,600	100	66,000	88	47,500	70						
286	9000	6 41	87,500	120	82,300	110	71,300	100	56,400	84						
302	9500	7 14	96,000	145	91,000	135	81,700	125	70,400	110	54,200	92				
318	10000	7 91	104,000	175	99,700	170	91,100	150	81,300	140	69,300	125	50,700	98		
334	10500	8 72			108,000	200	100,000	185	91,600	170	81,700	155	69,300	140	47,100	105
350	11000	9 57			117,000	210	108,000	220	101,000	205	92,200	190	82,200	175	69,000	155
366	11500	10 5					117,000	260	109,000	245	102,000	225	93,300	210	82,700	195
382	12000	11 4					125,000	305	118,000	285	111,000	265	103,000	250	94,200	235
398	12500	12 4							126,000	330	120,000	310	112,000	295	105,000	280
414	13000	13 4							135,000	380	128,000	365	122,000	345	115,000	330
430	13500	14 4							143,000	445	137,000	420	130,000	395	124,000	380
446	14000	15 5									145,000	480	139,000	455	133,000	435

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
350	11000	9 57	45,000	110												
366	11500	10 5	69,700	170	41,200	120										
382	12000	11 4	84,300	215	70,600	190	45,400	135								
398	12500	12 4	96,000	260	86,100	240	73,000	215	47,500	155						
414	13000	13 4	107,000	310	98,500	290	88,700	270	75,800	240	51,500	180				
430	13500	14 4	117,000	360	109,000	345	101,000	325	91,100	300	78,700	270	57,100	210		
446	14000	15 5	126,000	415	119,000	400	112,000	380	104,000	355	94,200	335	82,000	300		

Single Inlet **Single Width**

11' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
40	1400	0.155	13,100	0.415												
46	1600	0.202	17,900	0.77												
52	1800	0.256	22,100	1.15	12,600	0.76										
58	2000	0.316	25,800	1.75	19,000	1.30										
64	2200	0.383	29,500	2.35	24,000	1.95	15,200	1.10								
69	2400	0.456	33,000	3.15	28,300	2.70	21,900	2.20								
75	2600	0.534	36,200	4.05	32,200	3.60	27,000	3.10	19,900	2.45						
81	2800	0.620	39,800	5.7	36,100	4.75	31,500	4.15	26,100	3.55	17,600	2.65				
87	3000	0.712	43,300	6.6			35,800	5.4	31,400	4.75	25,400	4.05	14,100	2.65		
93	3200	0.810	46,500	8.0			39,700	6.8	35,700	6.1	31,000	5.5	24,800	4.65		
98	3400	0.914	50,000	9.8			43,700	8.5	40,100	7.8	35,600	7.0	31,100	6.3	24,800	5.3
104	3600	1.02	53,200	11.5					41,100	9.2	40,000	8.7	36,000	8.0	31,700	7.2
110	3800	1.14	56,600	13.6					48,000	11.5	44,700	11.0	40,900	10.0	37,200	9.3
116	4000	1.27	59,600	15.9							48,600	13.0	45,500	12.0	41,900	11.5
121	4200	1.39	63,000	18.5							52,500	15.5	49,700	15.0	46,400	13.5
127	4400	1.53	66,200	21.3							56,500	18.5	53,700	17.5	50,800	16.5
133	4600	1.67	69,500	24.5									57,700	20.5	55,000	19.5
139	4800	1.82	72,700	28									61,500	24	59,000	23
145	5000	1.98	76,000	32											63,000	27

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch.		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3 "Water 1.73 ozs. per sq. inch	
104	3600	1.02	25,100	6.1												
110	3800	1.14	32,200	8.3												
116	4000	1.27	38,100	10.5	26,800	8.2										
121	4200	1.39	43,000	13.0	34,500	11.0										
127	4400	1.53	47,700	15.5	40,500	13.5	30,200	11.0								
133	4600	1.67	52,300	18.5	45,600	16.5	38,000	14.5	22,800	9.9						
139	4800	1.82	56,300	21.5	50,400	19.5	43,800	17.5	34,700	15.0						
145	5000	1.98	60,400	25	54,000	22.5	49,000	21	42,000	18.5	31,000	15				
152	5250	2.18	65,400	31	60,500	28	55,000	26	49,000	23.5	41,600	21				
159	5500	2.39	70,100	36	65,800	33	61,000	31	55,500	29	49,500	26	27,200	19		
166	5750	2.61			70,500	39	66,000	36	61,400	34	56,100	32	41,900	26		
174	6000	2.85			75,600	46	71,600	43	66,500	40	62,100	38	50,800	33	27,600	21
181	6250	3.09					76,500	50	72,500	47	68,000	45	58,000	39	44,200	32
188	6500	3.33					81,400	58	77,700	54	73,400	52	64,100	46	53,400	40
195	6750	3.60					86,200	66	82,800	64	78,800	60	70,600	54	61,000	49
203	7000	3.88							87,700	72	84,200	68	76,400	62	67,600	58
210	7250	4.15							92,500	82	88,700	78	81,900	72	73,800	66
217	7500	4.45									94,000	90	87,000	80	79,800	76
224	7750	4.75									99,000	100	92,500	92	85,400	86
231	8000	5.06											97,300	105	91,000	96
238	8250	5.38											102,000	115	96,100	110
246	8500	5.71											107,000	130	101,000	125
253	8750	6.05											112,000	145	106,000	135
260	9000	6.41													111,000	155

Single Inlet **11' Steel Plate Fan—Design 2—Cont'd** **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
188	6500	3 33	30,600	27												
195	6750	3 60	47,600	41												
203	7000	3 88	56,800	50	38,000	37										
210	7250	4 15	64,600	60	52,000	50										
217	7500	4 45	71,300	70	61,600	62										
224	7750	4 75	77,500	80	69,400	74	36,100	45								
231	8000	5 06	83,800	90	76,100	84	54,000	66								
238	8250	5 37	89,500	100	82,600	96	64,000	80								
246	8500	5 71	95,500	115	88,300	110	72,300	92	39,600	60						
253	8750	6 05	101,000	130	93,900	120	79,900	105	57,500	86						
260	9000	6 41	106,000	145	99,600	135	86,300	120	68,300	105						
275	9500	7 11	116,000	175	110,000	165	99,000	150	85,200	135	65,600	110				
290	10000	7 91	126,000	215	121,000	205	110,000	185	98,500	170	84,000	150	61,400	120		
304	10500	8 72			131,000	245	121,000	225	111,000	205	98,900	190	84,000	170	57,100	125
319	11000	9 57			141,000	290	131,000	265	122,000	250	112,000	230	99,500	210	83,500	185
333	11500	10 5					142,000	310	132,000	295	123,000	275	113,000	255	100,000	235
348	12000	11 4					151,000	370	143,000	345	134,000	320	125,000	305	114,000	285
362	12500	12 4							153,000	400	145,000	380	136,000	355	127,000	340
377	13000	13 4							163,000	460	155,000	440	147,000	415	139,000	395
392	13500	14 4							173,000	540	166,000	510	158,000	475	150,000	460
406	14000	15 5									176,000	580	168,000	550	161,000	525

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
319	11000	9 57	54,400	135												
333	11500	10 5	84,500	205	53,500	145										
348	12000	11 4	102,000	260	85,500	230	55,000	165								
362	12500	12 4	116,000	315	104,000	290	88,400	260	57,500	190						
377	13000	13 4	129,000	375	119,000	350	107,000	325	91,800	290	62,200	220				
392	13500	14 4	141,000	435	132,000	415	122,000	390	110,000	360	95,300	325	69,200	255		
406	14000	15 5	153,000	505	144,000	480	136,000	460	126,000	430	114,000	400	99,200	365		

Single Inlet **Single Width**

12' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inches	
37	1400	0.155	15,500	0.53												
42	1600	0.202	21,300	0.91												
48	1800	0.256	26,300	1.40	15,000	0.91										
53	2000	0.316	30,800	2.10	22,700	1.55										
58	2200	0.383	35,200	2.80	28,500	2.30	18,100	1.65								
64	2400	0.456	39,400	3.75	33,700	3.25	26,100	2.6								
69	2600	0.534	43,300	4.45	38,300	4.32	32,200	3.7	23,700	2.95						
74	2800	0.620	47,500	6.0	43,000	5.6	37,500	4.9	31,100	4.2	21,000	3.15				
80	3000	0.712	51,500	7.8			42,600	6.4	37,300	5.6	30,200	4.85	16,800	3.15		
85	3200	0.810	55,100	9.5			47,300	8.1	42,500	7.3	36,900	6.5	29,600	5.5		
90	3400	0.914	59,500	11.5			52,000	10	47,800	9.2	42,500	8.3	37,100	7.5	29,600	6.3
96	3600	1.02	63,100	13.5					52,600	11	47,700	10.5	42,900	9.6	37,700	8.6
101	3800	1.14	67,500	16					57,300	14	53,200	13.0	48,600	12.0	44,300	11.0
106	4000	1.27	71,000	19							57,800	16.5	54,300	14.5	49,800	13.5
111	4200	1.39	75,000	22							62,600	18.5	59,200	17.5	55,400	16.5
117	4400	1.53	79,000	26							67,400	22	64,000	21.0	60,600	19.5
122	4600	1.67	82,900	29									68,600	24.5	65,500	23
127	4800	1.82	86,600	33									73,200	28	70,300	27
137	5000	1.98	90,500	38											75,000	32

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
96	3600	1.02	29,800	7.3												
101	3800	1.14	38,300	9.9												
106	4000	1.27	45,300	12.5	32,000	9.7										
111	4200	1.39	51,200	15.5	41,000	13.0										
117	4400	1.53	56,700	18.5	48,200	16.5	36,000	13								
122	4600	1.67	62,200	22	54,300	19.5	45,300	17	27,100	12.0						
127	4800	1.82	67,000	26	60,000	23.5	52,200	21	41,400	17.5						
132	5000	1.98	72,000	30	64,400	27	58,300	25	50,000	22.5	37,000	18				
139	5250	2.18	77,800	36	72,000	33	65,500	31	58,500	28	49,500	25				
146	5500	2.39	83,500	43	78,400	40	72,600	37	66,100	34	59,000	31	32,300	22.5		
153	5750	2.61			84,100	47	78,500	43	73,000	41	66,800	38	49,900	31		
159	6000	2.85			90,200	54	85,400	52	79,100	48	74,000	45	60,400	39	32,900	25
166	6250	3.08					91,200	60	86,300	56	81,000	54	69,000	47	52,500	39
172	6500	3.33					97,000	70	92,600	66	87,500	62	76,500	56	63,500	48
179	7750	3.60					103,000	80	98,600	76	93,900	72	84,000	64	72,500	58
186	7000	3.88							105,000	86	100,000	82	91,000	74	80,500	68
192	7250	4.15							110,000	98	106,000	92	97,500	86	87,900	80
199	7500	4.45									112,000	105	104,000	96	95,000	90
205	7750	4.75									118,000	120	110,000	110	102,000	100
212	8000	5.06											116,000	125	109,000	115
219	8250	5.38											122,000	140	115,000	130
226	8500	5.71											128,000	155	120,000	145
232	8750	6.05											134,000	170	127,000	165
239	9000	6.41													133,000	180

Single Inlet

12' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
172	6500	3 33	36,500	32												
179	6750	3 60	56,700	48												
186	7000	3 88	67,800	60	45,200	44										
192	7250	4 15	77,000	72	61,900	60										
199	7500	4 45	85,000	84	73,300	74										
205	7750	4 75	92,300	96	82,600	88	42,900	54								
212	8000	5 06	100,000	110	90,500	100	64,200	78								
219	8250	5 37	107,000	120	98,300	115	76,100	94								
226	8500	5 71	114,000	135	105,000	130	86,100	110	47,100	70						
232	8750	6 05	120,000	155	112,000	145	95,100	125	68,500	100						
239	9000	6 41	126,000	170	119,000	160	103,000	145	81,400	120						
252	9500	7 14	138,000	210	131,000	200	118,000	180	101,000	160	78,100	135				
265	10000	7 91	150,000	255	144,000	245	131,000	220	117,000	200	100,000	180	73,200	140		
279	10500	8 72			156,000	290	145,000	270	132,000	245	118,000	225	100,000	200	68,000	150
292	11000	9 57			168,000	340	157,000	315	145,000	295	133,000	275	118,000	250	99,500	220
305	11500	10 5					169,000	370	157,000	355	147,000	325	134,000	305	119,000	280
319	12000	11 4					180,000	435	170,000	410	160,000	385	149,000	365	136,000	340
332	12500	12 4							182,000	475	173,000	450	162,000	425	151,000	405
345	13000	13 4							194,000	550	185,000	525	176,000	495	165,000	475
358	13500	14 4							206,000	640	197,000	605	188,000	570	178,000	545
372	14000	15 5									210,000	690	201,000	655	191,000	625

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
292	11000	9 57	64,900	160												
305	11500	10 5	101,000	245	63,600	175										
319	12000	11 4	122,000	310	102,000	275	65,500	200								
332	12500	12 4	138,000	375	124,000	350	105,000	305	68,500	225						
345	13000	13 4	151,000	445	142,000	420	128,000	390	109,000	345	74,100	260				
358	13500	14 4	168,000	520	158,000	495	146,000	465	132,000	430	114,000	390	82,400	305		
372	14000	15 5	182,000	600	172,000	575	162,000	550	150,000	515	136,000	480	118,000	435		

Double Inlet

4' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
111	1400	0.162	2,220	0.080												
127	1600	0.211	3,080	0.140												
143	1800	0.267	3,840	0.225	2,150	0.130										
159	2000	0.330			3,240	0.215										
175	2200	0.400			4,080	0.355	2,630	0.24								
191	2400	0.475			4,870	0.50	3,720	0.39	1,710	0.205						
207	2600	0.558			5,610	0.69	4,600	0.56	3,410	0.43						
223	2800	0.647					5,440	0.77	4,430	0.63	3,150	0.47				
239	3000	0.743					6,200	1.00	5,300	0.86	4,330	0.72	2,880	0.51		
255	3200	0.825					6,850	1.25	6,150	1.10	5,170	0.94	4,090	0.76	2,140	0.46
271	3400	0.953							6,920	1.45	6,110	1.25	5,290	1.10	4,250	0.92
287	3600	1.070							7,670	1.8	6,910	1.6	6,190	1.45	5,400	1.30
303	3800	1.190							8,350	2.2	7,710	2.0	7,050	1.85	6,290	1.65
319	4000	1.320									8,500	2.5	7,890	2.30	7,190	2.05
335	4200	1.455									9,160	2.9	8,610	2.75	7,960	2.55
351	4400	1.60											9,350	3.30	8,800	3.10
367	4600	1.75											10,100	3.85	9,550	3.65
382	4800	1.90													10,300	4.3
398	5000	2.06													11,000	4.9

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
271	3400	0.953	2,500	0.62												
287	3600	1.070	4,330	1.05												
303	3800	1.190	5,470	1.45	2,780	0.83										
319	4000	1.320	6,460	1.90	4,790	1.45										
334	4200	1.455	7,330	2.35	5,900	1.90	3,620	1.30								
350	4400	1.60	8,200	2.85	6,860	2.4	5,310	1.95								
366	4600	1.75	8,980	3.45	7,800	3.0	6,440	2.50	4,560	1.90						
382	4800	1.90	9,740	4.1	8,650	3.7	7,450	3.15	5,940	2.55	3,490	1.70				
398	5000	2.06	10,500	4.8	9,450	4.3	8,370	3.8	7,080	3.25	5,490	2.60				
417	5250	2.27					9,420	4.7	8,320	4.2	7,050	3.60				
437	5500	2.50					10,400	5.7	9,460	5.2	8,390	4.65	5,450	3.20		
457	5750	2.73					11,500	6.8	10,500	6.3	9,550	5.7	7,200	4.45		
477	6000	2.97					12,400	8.1	11,500	7.5	10,600	6.9	8,620	5.7	5,710	4.0
497	6250	3.22					13,300	9.4	12,600	8.9	11,600	8.2	9,850	7.0	7,540	5.5
517	6500	3.49					14,200	11	13,500	10.5	12,700	9.7	11,000	8.4	9,100	7.1
537	6750	3.76							14,400	12.0	13,700	11.5	12,000	9.9	10,300	8.6
557	7000	4.04							15,200	13.5	14,500	13.0	13,100	11.5	11,500	10.0
575	7250	4.34									15,500	14.5	14,100	13.5	12,300	12.0
597	7500	4.64									16,300	16.5	15,100	15.5	13,600	14.0
615	7750	4.96											16,100	17.5	14,700	16.0
637	8000	5.28											16,900	19.5	15,600	18.0
655	8250	5.62											17,800	22	16,700	20.5
677	8500	5.96											18,700	24	17,600	23
695	8750	6.32													18,500	26
717	9000	6.68													19,400	28

Double Inlet 4' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
517	6500	3.49	6,440	5.3												
537	6750	3.76	8,240	7.1	3,970	4.1										
557	7000	4.04	9,620	8.7	7,220	6.8										
575	7250	4.34	11,000	10.5	8,990	8.9										
597	7500	4.64	12,100	12.5	10,400	11.0										
615	7750	4.96	13,300	14.5	11,800	13.0	7,450	8.6								
637	8000	5.28	14,300	16.5	12,900	15.0	9,350	11.5								
655	8250	5.62	15,400	19.0	14,000	17.5	11,000	13.5								
677	8500	5.96	16,400	21.5	15,200	19.5	12,300	16.5	8,270	11.5						
695	8750	6.32	17,400	24	16,100	22	13,500	19.0	10,200	14.5						
717	9000	6.68	18,300	27	17,100	25	14,700	21.5	11,700	17.5	6,760	11.5				
756	9500	7.45	20,100	33	19,100	31	16,900	28	14,500	24	11,300	19				
796	10000	8.25	21,900	40	21,000	38	18,900	34	16,800	30	14,200	26	11,000	21		
837	10500	9.10			22,700	45	20,900	41	18,800	37	16,700	33	14,100	29	10,800	23
877	11000	9.98					22,800	50	21,000	46	18,900	41	16,700	37	14,200	32
917	11500	10.9					24,500	58	22,900	54	21,000	50	19,100	46	16,900	41
956	12000	11.9					26,300	68	24,800	64	23,100	60	21,200	56	19,400	50
996	12500	12.9							26,700	76	25,100	70	23,400	66	21,700	62
1035	13000	13.9							28,300	86	26,900	82	25,400	78	23,700	72
1075	13500	15.0									28,800	96	27,300	90	25,800	86
1115	14000	16.2									30,500	110	29,100	105	27,800	98
1150	14500	17.4											31,000	115	29,600	115
1190	15000	18.6											32,700	135	31,500	130
1230	15500	19.8													33,300	145
1270	16000	21.1													35,100	160
1310	16500	22.5														
1350	17000	23.8														
1390	17500	25.3														
1430	18000	26.7														
1470	18500	28.2														
1510	19000	29.8														
1550	19500	31.4														
1590	20000	33.0														

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 15" Water 0.00 ozs. per sq. inch		Static Pressure 16" Water 0.00 ozs. per sq. inch	
877	11000	9.98	10,900	25												
917	11500	10.9	14,100	36	11,200	29										
956	12000	11.9	17,200	45	11,800	40	11,400	32								
996	12500	12.9	19,800	56	17,600	50	15,500	48	12,100	37						
1035	13000	13.9	22,000	68	20,200	62	18,200	56	15,800	50	12,700	42				
1075	13500	15.0	24,000	80	22,500	71	20,600	68	18,700	62	16,700	56				
1115	14000	16.2	26,100	92	24,600	86	23,000	82	21,400	76	19,400	70				
1150	14500	17.4	28,200	105	26,600	100	25,200	96	23,700	90	22,100	86				
1190	15000	18.6	30,200	125	28,800	115	27,300	110	25,900	105	24,300	98				
1230	15500	19.8	32,000	140	30,700	130	29,400	125	28,100	120	26,500	115				
1270	16000	21.1	33,900	155	32,600	150	31,400	145	30,100	140	28,600	130				
1310	16500	22.5	35,700	175	34,500	170	33,200	165	32,000	155	30,700	150				
1350	17000	23.8	37,400	195	36,300	190	35,200	180	34,000	175	32,700	170				
					38,000	210	37,000	205	35,800	195	34,800	190				
							38,700	225	37,800	220	36,600	215				
							40,600	250	39,500	240	38,400	235				
									41,400	270	40,300	265				
											42,100	290				
											43,800	320				

Double Inlet

4½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
99	1400	0 162	2,800	0 100												
113	1600	0 211	3,880	0 180												
127	1800	0 267	4,840	0 285	2,720	0 165										
141	2000	0 330			4,080	0.31										
155	2200	0 400			5,160	0 45	3,320	0 300								
169	2400	0 475			6,140	0.64	4,700	0 495	2,160	0 26						
183	2600	0 558			7,080	0.87	5,810	0 71	4,300	0.54						
197	2800	0 647					6,860	0.97	5,590	0 80	3,980	0.59				
211	3000	0 743					7,840	1.25	6,700	1.10	5,470	0.91	3,640	0.64		
225	3200	0 825					8,650	1.60	7,760	1 40	6,530	1 20	5,160	0 96	2,700	0.58
240	3400	0 953							8,740	1.85	7,720	1 60	6,670	1 40	5,370	1.15
254	3600	1 07							9,690	2.25	8,740	2 05	7,810	1.85	6,810	1.6
268	3800	1 19							10,500	2 75	9,740	2 55	8,890	2 30	7,940	2.1
283	4000	1 32									10,700	3 1	9,950	2 90	9,060	2 6
297	4200	1 46									11,600	3 7	10,900	3.50	10,000	3 2
311	4400	1 60											11,800	4 15	11,100	3 9
325	4600	1 75											12,700	4.85	12,100	4 6
339	4800	1 90													12,900	5.4
353	5000	2 06													13,800	6 2

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
240	3400	0.953	3,260	0.78												
254	3600	1.07	5,470	1.35												
268	3800	1.19	6,900	1 85	3,510	1.05										
283	4000	1.32	8,160	2.40	6,050	1.85										
297	4200	1.46	9,250	2 95	7,440	2 40	4,580	1.60								
311	4400	1.60	10,300	3 6	8,660	3.05	6,710	2,45								
325	4600	1 75	11,300	4.4	9,840	3.80	8,130	3.20	5,770	2.35						
339	4800	1 90	12,300	5.2	10,900	4.65	9,410	3.95	7,500	3 2	4,400	2 10				
353	5000	2.06	13,200	6	11,900	5.46	10,600	4.8	8,930	4.1	6,930	3 30				
372	5250	2 27					11,900	5 9	10,500	5.3	8,900	4.55				
390	5500	2 50					13,200	7.2	11,900	6,6	10,600	5 9	6,870	4.05		
407	5750	2.73					14,400	8.6	13,300	7.9	12,000	7 2	9,100	5 6		
425	6000	2.97					15,700	10.0	14,500	9.5	13,400	8 7	10,900	7 2	7,200	5 1
442	6250	3.22					16,800	12.0	15,800	11	14,700	10 5	12,400	8 9	9,500	7.0
460	6500	3 49					17,900	13.5	17,000	13	16,000	12 0	13,900	10 5	11,500	9.0
477	6750	3.76							18,200	15	17,200	14 0	15,200	12 5	13,000	11 0
495	7000	4 04							19,200	17	18,300	16 0	16,500	14 5	14,500	13.0
512	7250	4.34									19,600	18 5	17,800	17 0	15,900	15.0
532	7500	4 64									20,600	21	19,000	19.5	17,200	17.5
548	7750	4.96											20,300	22	18,500	20
566	8000	5.28											21,400	25	19,700	23
583	8250	5 62											22,500	28	21,000	26
601	8500	5 96											23,500	30	22,200	29
618	8750	6 32													23,400	32
636	9000	6.68													24,500	36

Double Inlet

4½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3¼" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
460	6500	3.49	8,120	6.7												
477	6750	3.76	10,400	8.9	5,020	5.2										
495	7000	4.01	12,100	11.0	9,130	8.6										
512	7250	4.34	13,800	13.5	11,400	11.0										
532	7500	4.64	15,300	15.5	13,100	13.5										
548	7750	4.96	16,800	18.0	14,900	16.5	9,400	11.0								
566	8000	5.28	18,100	21.0	16,300	19	11,800	14.0								
583	8250	5.62	19,400	23.5	17,700	22	13,800	17.5								
601	8500	5.96	20,700	27	19,000	25	15,500	21	10,400	14.5						
618	8750	6.32	21,900	30	20,300	28	17,100	24	12,900	18.5						
636	9000	6.68	23,200	34	21,600	31	18,500	27	14,800	22	8,540	14.5				
672	9500	7.45	25,400	42	24,200	40	21,300	35	18,300	30	14,300	24				
708	10000	8.25	27,600	50	26,500	48	23,900	43	21,200	38	17,900	33	13,900	26		
743	10500	9.10			28,700	56	26,400	52	23,800	47	21,000	42	17,800	36	13,700	29
779	11000	9.98					28,800	61	26,400	58	23,900	52	21,100	47	18,000	40
814	11500	10.9					31,000	74	28,900	68	26,500	64	21,100	58	21,400	52
850	12000	11.9					33,100	86	31,300	82	29,100	76	26,800	70	24,500	64
885	12500	12.9							33,700	96	31,600	90	29,500	82	27,400	78
920	13000	13.9							35,800	110	34,000	105	32,000	98	30,000	92
955	13500	15.0									36,400	120	34,400	115	32,500	105
990	14000	16.2									38,500	135	36,700	130	35,100	125
1022	14500	17.4											39,100	150	37,400	145
1059	15000	18.6											41,200	170	39,800	160
1097	15500	19.8													42,000	180
1130	16000	21.1													44,300	205

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch	
779	11000	9.98	13,800	32												
811	11500	10.9	18,200	45	14,100	36										
850	12000	11.9	21,700	58	18,600	50	14,400	40								
885	12500	12.9	24,900	70	22,300	64	19,600	58	15,300	47						
920	13000	13.9	27,800	86	25,500	78	23,000	72	19,900	64	16,100	52				
955	13500	15.0	30,300	100	28,400	94	26,000	86	23,600	80	21,100	72				
990	14000	16.2	33,000	115	31,100	110	29,000	105	27,000	96	24,500	88				
1022	14500	17.4	35,700	135	33,600	125	31,900	120	29,900	115	27,900	105				
1059	15000	18.6	38,100	155	36,300	145	34,400	140	32,700	135	30,600	125				
1097	15500	19.8	40,500	175	38,800	165	37,100	160	35,400	155	33,500	145				
1130	16000	21.1	42,800	200	41,200	190	39,600	185	38,000	175	36,100	165				
1166	16500	22.5	45,100	220	43,500	215	42,000	210	40,500	200	38,700	190				
1200	17000	23.8	47,200	250	45,800	240	44,400	230	43,000	225	41,200	215				
1235	17500	25.3			48,000	265	46,700	260	45,300	250	43,900	240				
1270	18000	26.7					48,900	285	47,800	275	46,200	270				
1307	18500	28.2					51,200	315	49,900	305	48,400	295				
1340	19000	29.8							52,200	340	50,800	335				
1378	19500	31.4									53,100	365				
1411	20000	33									55,300	400				

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Double Inlet

5' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water 2.17 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
89	1400	0.162	3,460	0.125												
102	1600	0.211	4,790	0.22												
115	1800	0.267	5,970	0.35	3,350	0.205										
127	2000	0.330			5,040	0.38										
140	2200	0.400			6,370	0.55	4,100	0.37								
153	2400	0.475			7,580	0.78	5,790	0.61	2,670	0.32						
166	2600	0.558			8,740	1.05	7,160	0.87	5,310	0.67						
178	2800	0.647					8,470	1.20	6,900	0.99	4,910	0.73				
191	3000	0.743					9,660	1.55	8,260	1.35	6,750	1.10	4,490	0.79		
204	3200	0.825					10,700	1.95	9,560	1.70	8,050	1.45	6,360	1.20	3,320	0.72
217	3400	0.953							10,800	2.25	9,530	2.00	8,240	1.75	6,620	1.45
229	3600	1.07							11,900	2.8	10,800	2.50	9,650	2.25	8,400	2.00
242	3800	1.19							13,000	3.4	12,000	3.15	11,000	2.85	9,790	2.55
255	4000	1.32									13,200	3.85	12,300	3.55	11,200	3.20
268	4200	1.46									14,300	4.5	13,400	4.3	12,400	3.95
280	4400	1.60											14,600	5.1	13,700	4.8
293	4600	1.75											15,700	6	14,900	5.7
306	4800	1.90													16,000	6.7
318	5000	2.06													17,100	7.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3 "Water 1.73 ozs. per sq. inch	
217	3400	0.953	4,030	0.96												
229	3600	1.07	6,750	1.65												
242	3800	1.19	8,510	2.25	4,330	1.30										
255	4000	1.32	10,100	2.95	7,460	2.25										
268	4200	1.46	11,400	3.65	9,180	3.00	5,650	2.0								
280	4400	1.60	12,800	4.45	10,700	3.80	8,270	3.0								
293	4600	1.75	14,000	5.4	12,100	4.65	10,000	3.9	7,100	2.9						
306	4800	1.90	15,100	6.4	13,500	5.8	11,600	4.9	9,250	4.0	5,430	2.60				
318	5000	2.06	16,300	7.5	14,700	6.7	13,000	5.9	11,000	5.1	8,550	4.05				
331	5250	2.27					14,700	7.3	13,000	6.5	11,000	5.6				
350	5500	2.50					16,300	8.9	14,700	8.1	13,100	7.3	8,480	5.0		
366	5750	2.73					17,800	10.5	16,400	9.8	14,900	8.9	11,200	6.9		
382	6000	2.97					19,300	12.5	18,000	11.5	16,500	11.0	13,400	8.9	8,890	6.2
398	6250	3.22					20,800	14.5	19,600	14.0	18,100	12.5	15,300	11.0	11,700	8.6
414	6500	3.49					22,100	17	21,000	16.0	19,800	15.0	17,100	13.0	14,200	11.0
430	6750	3.76							22,400	18.5	21,300	17.5	18,700	15.5	16,100	13.5
446	7000	4.04							23,700	21	22,600	20	20,400	18	17,900	16.0
460	7250	4.34									24,100	23	22,000	21	19,500	18.5
477	7500	4.64									25,400	26	23,500	24	21,200	21.5
493	7750	4.96											25,000	27	22,800	24.5
510	8000	5.28											26,400	31	24,400	28
525	8250	5.62											27,700	34	26,000	32
541	8500	5.96											29,100	37	27,400	36
556	8750	6.32													28,800	40
574	9000	6.68													30,200	44

Double Inlet **5' Steel Plate Fan—Design 2—Cont'd** **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
414	6500	3.49	10,000	8.3												
430	6750	3 76	12,800	11 0	6,190	6 4										
446	7000	4 04	15,000	13 5	11,200	10 5										
460	7250	4 34	17,100	16 5	14,000	13 5										
477	7500	4.64	18,900	19 5	16,200	17 0										
493	7750	4 96	20,700	22 5	18,300	20 0	11,600	13.5								
510	8000	5.28	22,300	26	20,100	23.5	14,600	17 5								
525	8250	5 62	23,900	29	21,800	27	17,100	21 5								
541	8500	5.96	25,500	33	23,500	31	19,100	25	12,900	18						
556	8750	6.32	27,000	37	25,000	35	21,000	30	15,900	23						
574	9000	6 68	28,600	42	26,600	39	22,900	34	18,300	27	10,500	18				
605	9500	7 45	31,100	52	29,800	49	26,200	43	23,500	37	17,600	30				
637	10000	8 25	34,100	62	32,700	60	29,400	54	26,100	47	22,000	41	17,100	32		
670	10500	9.10			35,400	70	32,600	64	29,300	58	25,900	52	22,000	45	16,900	36
701	11000	9 98					35,500	78	32,600	70	29,500	64	26,000	58	22,200	50
733	11500	10.9					38,200	92	35,700	84	32,800	78	29,800	72	26,300	64
765	12000	11 9					40,900	105	38,600	100	35,900	94	33,100	86	30,300	80
797	12500	12.9							41,600	120	39,100	110	36,400	100	33,800	96
828	13000	13 9							44,200	135	41,900	130	39,400	120	37,000	115
860	13500	15.0									44,900	150	42,500	140	40,200	135
892	14000	16 2									47,500	170	45,300	160	43,200	155
920	14500	17 4											48,200	180	46,200	175
954	15000	18.6											50,900	205	49,000	200
985	15500	19 8													51,800	225
1018	16000	21.1													54,700	255

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
701	11000	9 98	17,000	40												
733	11500	10 9	22,500	56	17,400	45										
765	12000	11 9	26,800	70	23,000	62	17,800	50								
797	12500	12 9	30,800	88	27,500	78	24,200	70	18,900	58						
828	13000	13 9	34,300	105	31,400	96	28,400	88	24,600	78	19,800	64				
860	13500	15 0	37,500	125	35,000	115	32,100	105	29,200	98	26,100	88				
892	14000	16 2	40,700	145	38,300	135	35,800	125	33,200	120	30,300	110				
920	14500	17 4	44,000	165	41,500	155	39,300	150	36,900	140	34,500	135				
954	15000	18 6	47,000	190	44,800	180	42,400	170	40,300	165	37,800	155				
985	15500	19.8	49,900	215	47,800	205	45,700	195	43,700	190	41,300	180				
1018	16000	21 1	52,700	245	50,800	235	48,800	225	46,900	215	44,500	205				
1050	16500	22 5	55,600	275	53,700	265	51,800	255	49,900	245	47,800	235				
1080	17000	23 8	58,200	305	56,500	295	54,800	285	53,000	275	50,900	265				
1112	17500	25 3			59,200	330	57,600	320	55,900	305	54,100	300				
1143	18000	26 7					60,400	355	58,900	340	57,000	335				
1175	18500	28 2					63,200	390	61,500	375	59,700	365				
1210	19000	29 8							64,400	420	62,700	415				
1240	19500	31 4									65,500	450				
1270	20000	33									68,200	495				

Double Inlet

5½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
81	1400	0.162	4,190	0.150												
93	1600	0.211	5,790	0.270												
104	1800	0.267	7,220	0.425	4,050	0.245										
116	2000	0.330			6,100	0.46										
127	2200	0.400			7,710	0.67	4,960	0.45								
139	2400	0.475			9,180	0.95	7,020	0.74	3,230	0.39						
150	2600	0.558			10,600	1.3	8,670	1.05	6,430	0.81						
162	2800	0.647					10,300	1.45	8,350	1.20	5,950	0.89				
174	3000	0.743					11,700	1.90	10,000	1.65	8,160	1.35	5,440	0.95		
185	3200	0.825					12,900	2.35	11,600	2.10	9,750	1.75	7,700	1.45	4,030	0.87
197	3400	0.953							13,100	2.75	11,500	2.40	9,970	2.10	8,020	1.75
208	3600	1.07							14,500	3.40	13,000	3.05	11,700	2.75	10,200	2.45
220	3800	1.19							15,700	4.1	14,500	3.80	13,300	3.45	11,800	3.10
232	4000	1.32									16,000	4.65	14,900	4.3	13,500	3.90
243	4200	1.46									17,300	5.5	16,200	5.2	15,000	4.75
255	4400	1.60											17,600	6.2	16,600	5.8
266	4600	1.75											19,000	7.3	18,000	6.9
278	4800	1.90													19,300	8.1
290	5000	2.06													20,600	9.3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
197	3400	0.953	4,870	1.15												
208	3600	1.07	8,170	2.00												
220	3800	1.19	10,300	2.75	5,240	1.55										
232	4000	1.32	12,200	3.55	9,030	2.75										
243	4200	1.46	13,800	4.4	11,100	3.6	6,830	2.40								
255	4400	1.60	15,500	5.4	12,300	4.6	10,000	3.65								
266	4600	1.75	16,900	6.5	14,700	5.7	12,100	4.75	8,600	3.55						
278	4800	1.90	18,300	7.8	16,300	7.0	14,100	5.9	11,200	4.8	6,570	3.15				
290	5000	2.06	19,800	9	17,800	8.1	15,800	7.2	13,300	5.1	14,400	4.9				
304	5250	2.27					17,700	8.8	15,700	7.9	13,300	6.8				
318	5500	2.50					19,700	10.5	17,900	9.8	15,800	8.8	10,300	6.0		
332	5750	2.73					21,600	13.0	19,800	12.0	18,000	11.0	13,600	8.4		
348	6000	2.97					23,400	15.5	21,700	14.0	20,000	13.0	16,300	11.0	10,800	7.6
361	6250	3.22					25,100	18.0	23,700	16.5	21,900	15.5	18,500	13.0	14,200	10.5
376	6500	3.49					26,700	20.5	25,100	19.5	23,900	18.5	20,800	16.0	17,100	13.5
390	6750	3.76							27,200	22.5	25,800	21.0	22,700	18.5	19,400	16.0
405	7000	4.04							28,700	26	27,400	23.5	24,600	21.5	21,700	19.5
419	7250	4.34									29,200	28	26,600	25	23,700	22.5
435	7500	4.64									30,700	31	28,500	29	25,700	26
448	7750	4.96											30,300	33	27,600	30
464	8000	5.28											32,000	37	29,500	34
477	8250	5.62											33,600	41	31,400	39
491	8500	5.96											35,200	45	33,700	43
506	8750	6.32													34,900	48
520	9000	6.68													36,600	53

Double Inlet

5½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
376	6500	3.49	12,100	10.0												
390	6750	3.76	15,500	13.6	7,490	7.7										
405	7000	4.01	18,100	16.5	13,600	13.0										
419	7250	4.31	20,600	20.0	16,900	16.5										
435	7500	4.64	22,800	23.5	19,600	20.0										
448	7750	4.96	25,000	27	22,200	24.5	14,000	16.5								
464	8000	5.28	27,000	31	24,300	28	17,600	21								
477	8250	5.62	29,000	35	26,400	33	20,600	26								
491	8500	5.96	30,900	40	28,400	37	23,100	31	15,600	22						
506	8750	6.32	32,700	45	30,100	42	25,500	36	19,300	28						
520	9000	6.68	34,600	52	32,200	47	27,800	41	22,200	33	12,700	22				
550	9500	7.45	37,900	62	36,100	60	31,800	52	27,300	45	21,100	36				
578	10000	8.25	41,300	74	39,600	72	35,600	64	31,600	58	26,800	49	20,700	39		
609	10500	9.10			42,800	86	39,500	78	35,500	70	31,400	62	26,600	54	20,400	43
637	11000	9.98					43,000	94	39,500	86	35,700	78	31,500	70	26,800	60
666	11500	10.9					46,300	110	43,300	105	39,700	94	36,000	86	31,800	78
695	12000	11.9					49,300	130	46,800	120	43,500	110	40,000	105	36,600	96
721	12500	12.9							50,300	145	47,300	135	41,000	125	40,900	115
754	13000	13.9							53,400	165	50,700	155	47,800	145	44,800	140
781	13500	15.0									54,300	180	51,500	170	48,600	160
811	14000	16.2									57,500	205	54,900	195	52,300	185
839	14500	17.4											58,500	220	55,900	210
866	15000	18.6											61,500	250	59,400	240
896	15500	19.8													62,700	270
925	16000	21.1													64,100	305

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water .00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
637	11000	9.98	20,600	48												
666	11500	10.9	27,200	68	21,000	54										
695	12000	11.9	32,400	86	27,800	74	21,500	60								
724	12500	12.9	37,200	105	33,300	96	29,200	86	22,900	70						
754	13000	13.9	41,500	125	38,000	115	34,400	105	29,800	94	24,000	78				
781	13500	15.0	45,300	150	42,400	140	38,800	130	35,300	120	31,500	105				
811	14000	16.2	49,300	175	46,400	165	43,400	155	40,300	145	36,600	130				
839	14500	17.1	53,300	205	50,200	190	47,000	180	44,700	170	41,700	160				
866	15000	18.6	57,000	230	54,300	220	51,400	210	48,800	200	45,700	185				
896	15500	19.8	60,400	260	58,000	250	55,300	240	53,000	230	50,000	215				
925	16000	21.1	63,900	295	61,500	285	59,100	275	56,700	260	53,900	250				
954	16500	22.5	67,300	330	65,000	320	62,700	310	60,400	295	57,800	280				
982	17000	23.8	70,500	370	68,500	355	66,300	345	64,100	335	61,500	320				
1010	17500	25.3			71,700	395	69,700	390	65,500	370	65,500	360				
1040	18000	26.7					73,000	430	71,400	410	69,000	405				
1070	18500	28.2					76,500	470	74,500	455	72,300	440				
1100	19000	29.8							78,000	510	76,000	500				
1128	19500	31.4									79,300	545				
1158	20000	33									82,500	600				

Double Inlet

6' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
74	1400	0.162	4,990	0.18												
85	1600	0.211	6,900	0.32												
95	1800	0.267	8,610	0.51	4,830	0.295										
106	2000	0.330			7,200	0.55										
117	2200	0.400			9,200	0.80	5,910	0.54								
127	2400	0.475			10,900	1.15	8,350	0.88	3,850	0.465						
138	2600	0.558			12,600	1.55	10,300	1.25	7,660	0.96						
149	2800	0.647					12,200	1.75	9,950	1.40	7,080	1.05				
159	3000	0.743					13,900	2.25	11,900	1.95	9,730	1.65	6,480	1.15		
170	3200	0.825					15,400	2.8	13,800	2.50	11,600	2.10	9,180	1.70	4,800	1.05
180	3400	0.953							15,600	3.25	13,700	2.85	11,900	2.50	9,550	2.05
191	3600	1.07							17,200	4.05	15,500	3.65	13,900	3.25	12,100	2.90
202	3800	1.19							18,700	4.9	17,300	4.55	15,800	4.1	14,100	3.70
212	4000	1.32									19,100	5.6	17,700	5.1	16,100	4.65
223	4200	1.46									20,600	6.5	19,300	6.2	17,900	5.7
233	4400	1.60											21,000	7.4	19,700	7.0
244	4600	1.75											22,600	8.7	21,400	8.2
255	4800	1.90													23,000	9.6
266	5000	2.08													24,600	11

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
180	3400	0.953	5,800	1.40												
191	3600	1.07	9,730	2.35												
202	3800	1.19	12,300	3.25	6,250	1.85										
212	4000	1.32	14,500	4.25	10,800	3.25										
223	4200	1.46	16,500	5.2	13,200	4.3	8,130	2.85								
233	4400	1.60	18,400	6.4	15,400	5.4	11,900	4.35								
244	4600	1.75	20,200	7.7	17,500	6.7	14,500	5.7	10,200	4.2						
255	4800	1.90	21,800	9.2	19,400	8.3	16,700	7.0	13,300	5.7	7,820	3.75				
266	5000	2.08	23,600	11	21,200	9.7	18,800	8.5	15,900	7.3	12,300	5.9				
278	5250	2.27					21,200	10.5	18,700	9.4	15,800	8.1				
292	5500	2.50					23,500	13.0	21,300	11.5	18,900	10.5	12,200	7.2		
305	5750	2.73					25,700	15.5	23,600	14	21,400	13.0	16,200	10		
318	6000	2.97					27,900	18.0	25,900	17	23,800	15.5	19,400	13	12,800	9.0
332	6250	3.22					29,900	21.0	28,200	20	26,200	18.5	22,100	16	16,900	12.5
345	6500	3.49					31,900	24.5	30,300	23	28,500	22	24,700	19	20,400	16.0
358	6750	3.76							32,400	27	30,600	25	27,000	22	23,200	19.5
372	7000	4.04							34,200	30	32,600	29	29,300	26	25,900	23
384	7250	4.34									34,800	33	31,700	30	28,200	27
398	7500	4.64									36,600	37	33,900	35	30,600	31
410	7750	4.96											36,000	39	32,900	36
425	8000	5.28											38,000	44	35,100	41
437	8250	5.62											40,000	49	37,400	46
451	8500	5.96											41,900	54	39,500	52
464	8750	6.32													41,600	58
478	4000	6.68													43,500	64

Double Inlet

6' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	P. H	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
345	6500	3 49	14,500	12 0												
358	6750	3.76	18,500	16 0	8,920	9 2										
372	7000	4.04	21,600	19 5	16,200	15										
384	7250	4.34	24,600	23 5	20,200	20										
308	7500	4 64	27,200	28	23,300	24										
410	7750	4 96	29,800	32	26,400	29	16,700	19 5								
425	8000	5 28	32,200	37	29,000	34	21,000	25								
437	8250	5.62	34,500	42	31,500	39	24,600	31								
451	8500	5.96	36,800	48	33,800	44	27,500	37	18,600	26						
464	8750	6.32	39,000	54	36,200	50	30,200	43	23,000	34						
478	9000	6 68	41,200	60	38,400	56	33,100	49	26,400	40	15,200	26				
504	9500	7 45	45,200	74	43,000	70	37,800	62	32,500	54	25,400	43				
530	10000	8 25	49,200	88	47,200	86	42,500	76	37,600	68	31,900	58	24,700	47		
558	10500	9.10			51,000	100	47,000	94	42,300	84	37,400	76	31,800	64	24,400	52
584	11000	9.98					51,300	110	47,000	100	42,500	94	37,500	84	31,900	72
611	11500	10 9					55,200	130	51,500	120	47,300	115	43,000	105	38,000	92
637	12000	11.9					59,000	155	55,700	145	51,900	135	47,700	125	43,700	115
663	12500	12.9							60,000	170	56,400	160	52,500	145	48,700	140
690	13000	13.9							63,000	195	60,500	185	56,900	175	53,400	165
717	13500	15 0									64,800	215	61,200	200	57,900	190
743	14000	16.2									68,500	245	65,400	230	62,400	220
768	14500	17.4											69,500	265	66,600	255
790	15000	18 6											73,300	300	70,700	290
820	15500	19 8													74,700	325
846	16000	21.1													78,800	365

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
584	11000	9 98	24,500	58												
611	11500	10.9	32,400	80	25,100	64										
637	12000	11 9	38,600	100	33,200	90	25,600	72								
663	12500	12.9	14,300	125	39,600	115	34,800	100	27,300	82						
690	13000	13 9	49,500	150	45,300	140	40,900	125	35,500	110	28,600	94				
717	13500	15.0	54,000	180	50,500	165	46,300	155	42,000	140	37,600	125				
743	14000	16.2	58,700	205	55,300	195	51,600	185	48,000	170	43,700	160				
768	14500	17.4	63,500	240	59,900	225	56,700	215	53,200	205	49,700	190				
790	15000	18 6	67,800	275	64,600	260	61,200	250	58,100	235	54,500	220				
820	15500	19 8	72,000	310	69,000	300	66,000	285	63,000	275	59,500	260				
846	16000	21 1	76,000	350	73,300	340	70,400	325	67,600	310	64,200	295				
873	16500	22 5	80,200	395	77,500	380	74,700	370	72,000	355	68,900	335				
900	17000	23 8	84,000	440	81,500	425	79,000	410	76,400	395	73,400	380				
927	17500	25.3			85,400	470	83,000	460	80,500	440	78,100	430				
954	18000	26 7					87,000	510	85,000	490	82,200	480				
980	18500	28 2					91,100	560	88,700	540	86,100	525				
1007	19000	29.8							92,900	605	90,500	600				
1033	19500	31 4									94,500	650				
1060	20000	33									98,500	715				

Double Inlet

6½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
69	1400	0 162	5,820	0 210												
78	1600	0 211	8,060	0 370												
88	1800	0 267	10,100	0 59	5,640	0 345										
98	2000	0 330			8,480	0.64										
108	2200	0.400			10,700	0 93	6,900	0 63								
118	2400	0 475			12,800	1 30	9,760	1 05	4,500	0 54						
127	2600	0 558			14,700	1 80	12,100	1 45	8,950	1.10						
137	2800	0 647					14,300	2 00	11,600	1 65	8,270	1.25				
147	3000	0 743					16,300	2 65	13,900	2 25	11,400	1 90	7,460	1 35		
157	3200	0 825					18,000	3 3	16,100	2.90	13,600	2 45	10,700	2 00	5,600	1.20
167	3400	0 953							18,100	3 80	16,000	3 35	13,900	2 95	11,200	2.40
176	3600	1.07							20,100	4 75	18,100	4.25	16,200	3 80	14,100	3 35
186	3800	1 19							21,900	5 7	20,200	5 3	18,500	4 8	16,500	4 3
196	4000	1 32									22,300	6 5	20,700	6 0	18,800	5 4
206	4200	1 46									24,000	7 6	22,600	7.3	20,900	6.6
216	4400	1 60											24,500	8 6	23,100	8 1
225	4600	1 75											26,400	10	25,000	9.6
235	4800	1 90													26,900	11
215	5000	2 06													28,700	13

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
167	3400	0 953	6,780	1.60												
176	3600	1.07	11,400	2.75												
186	3800	1.19	14,400	3 80	7,300	2 2										
196	4000	1 32	17,000	4.95	12,600	3 8										
206	4200	1.46	19,200	6 1	15,500	5 0	9,500	3.35								
216	4400	1.60	21,500	7 5	18,000	6.4	13,900	5.1								
225	4600	1.75	23,500	9.1	20,500	7.9	16,900	6.6	12,000	4 95						
235	4800	1.90	25,500	11.5	22,700	9.7	19,600	8 2	15,600	6 7	9,150	4 4				
245	5000	2 06	27,500	12.5	24,800	11	22,000	10 0	18,600	8 5	14,400	6 8				
257	5250	2 27					24,700	12.5	21,000	11 0	18,500	9.4				
269	5500	2.50					27,400	15	24,800	13 5	22,000	12.0	14,300	8.4		
282	5750	2.73					30,000	18	27,600	16.5	25,000	15 0	18,900	11 5		
294	6000	2 97					32,600	21	30,200	19 5	27,800	18 0	22,000	15 0	15,000	10 5
306	6250	3.22					34,900	25	32,900	23	30,500	21.5	25,800	18 5	19,800	14 5
318	6500	3 49					37,200	29	35,400	27	33,300	25	28,900	22	23,800	18.5
330	6750	3.76							37,800	31	35,800	30	31,600	26	27,000	22.5
343	7000	4 04							40,000	36	38,200	34	34,300	30	30,200	27
354	7250	4 34									40,600	39	37,000	35	32,100	31
368	7500	4 64									42,700	44	39,600	40	35,700	36
379	7750	4.96											42,000	46	38,400	42
302	8000	5 28											44,500	52	41,000	47
403	8250	5 62											46,700	58	43,700	54
417	8500	5 96											49,000	62	46,100	60
428	8750	6 32													48,500	68
411	9000	6.68													50,900	74

Double Inlet

6½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
318	6500	3.49	16,900	14.0												
330	6750	3.76	21,600	18.5	10,400	10.5										
343	7000	4.01	25,200	23	18,900	18										
354	7250	4.34	28,700	28	23,600	23										
368	7500	4.64	31,800	32	27,200	28										
379	7750	4.96	34,800	38	30,900	34	19,500	23								
392	8000	5.28	37,600	43	33,800	40	24,500	30								
403	8250	5.62	40,300	50	36,800	45	28,700	36								
417	8500	5.96	43,000	56	39,500	52	32,100	43	21,700	30						
428	8750	6.32	45,500	62	42,200	58	35,400	50	26,800	38						
441	9000	6.68	48,100	72	44,900	66	38,600	56	30,800	46	17,700	30				
465	9500	7.45	52,800	88	50,200	82	44,200	72	37,000	64	29,700	50				
490	10000	8.25	57,500	105	55,000	100	49,600	90	43,900	80	37,300	68	28,800	54		
515	10500	9.10			59,600	120	54,900	110	49,400	98	43,700	88	37,100	76	28,400	60
539	11000	9.98					59,900	130	51,900	120	49,600	110	43,800	96	37,300	84
563	11500	10.9					64,400	155	60,100	145	55,200	130	50,100	120	44,300	105
588	12000	11.9					68,900	180	65,100	170	60,500	155	55,800	145	51,000	135
613	12500	12.9							70,000	200	65,800	185	61,200	170	57,000	160
637	13000	13.9							74,300	230	70,600	215	66,400	200	62,300	190
662	13500	15.0									75,600	250	71,500	235	67,600	225
687	14000	16.2									80,000	285	76,400	270	72,900	260
710	14500	17.4											81,200	305	77,800	295
734	15000	18.6											85,600	350	82,600	335
759	15500	19.8													87,300	375
783	16000	21.1													92,100	425

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch	
539	11000	9.98	28,600	66												
563	11500	10.9	37,300	94	29,300	76										
588	12000	11.9	45,100	120	38,700	105	29,900	84								
613	12500	12.9	51,800	145	46,300	135	40,700	120	31,900	96						
637	13000	13.9	57,800	175	53,000	165	47,800	150	41,500	130	33,400	110				
662	13500	15.0	63,300	205	59,000	195	54,000	180	49,100	165	43,900	150				
687	14000	16.2	68,500	240	64,500	230	60,300	215	56,000	200	51,000	185				
710	14500	17.4	74,100	280	69,900	260	66,200	250	62,100	240	58,000	225				
734	15000	18.6	79,200	320	75,500	305	71,500	290	67,800	275	63,700	260				
759	15500	19.8	84,000	365	80,000	345	77,000	330	73,600	320	69,500	300				
783	16000	21.1	88,900	410	85,000	395	82,300	380	78,900	365	75,000	345				
808	16500	22.5	93,600	460	90,500	445	87,300	430	84,000	410	80,500	390				
832	17000	23.8	98,000	515	95,300	495	92,200	475	89,200	465	85,600	445				
855	17500	25.3			99,800	550	97,000	540	94,000	515	91,200	500				
880	18000	26.7					102,000	595	99,200	570	96,000	560				
905	18500	28.2					106,000	655	104,000	630	101,000	615				
930	19000	29.8							108,000	705	106,000	700				
955	19500	31.4									110,000	760				
978	20000	33									115,000	830				

Double Inlet **Single Width**

7' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
64	1400	0.162	6,770	0.245												
73	1600	0.211	9,360	0.43												
82	1800	0.267	11,700	0.69	6,550	0.40										
91	2000	0.330			9,860	0.71										
100	2200	0.400			12,500	1.10	8,030	0.73								
109	2400	0.475			14,800	1.55	11,300	1.20	5,230	0.63						
118	2600	0.558			17,100	2.1	14,000	1.70	10,400	1.30						
127	2800	0.647					16,600	2.35	13,500	1.95	9,600	1.45				
136	3000	0.743					18,900	3.1	16,200	2.65	13,200	2.20	8,790	1.55		
145	3200	0.825					20,900	3.8	18,700	3.35	15,800	2.85	12,500	2.30	6,510	1.40
155	3400	0.953							21,100	4.4	18,700	3.90	16,100	3.40	13,000	2.80
164	3600	1.07							23,400	5.5	21,100	4.95	18,900	4.45	16,400	3.90
173	3800	1.19							25,400	6.6	23,500	6.2	21,500	5.6	19,200	5.0
182	4000	1.32									25,900	7.5	24,000	7.0	21,900	6.3
191	4200	1.46									28,000	8.9	26,300	8.4	24,300	7.7
200	4400	1.60											28,500	10	26,800	9.4
209	4600	1.75											30,700	12	29,100	11
218	4800	1.90													31,200	13
227	5000	2.06													33,400	15

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
155	3400	0.953	7,880	1.90												
164	3600	1.07	13,200	3.20												
173	3800	1.19	16,700	4.45	8,490	2.5										
182	4000	1.32	19,700	5.8	14,600	4.4										
191	4200	1.46	22,400	7.1	18,000	5.8	11,000	3.9								
200	4400	1.60	25,000	8.7	20,900	7.4	16,200	5.9								
209	4600	1.75	27,400	10.5	23,800	9.2	19,600	7.7	13,900	5.7						
218	4800	1.90	29,700	12.5	26,400	11.5	22,700	9.6	18,100	7.8	10,600	5.1				
227	5000	2.06	32,000	14.5	28,800	13	25,600	11.5	21,600	9.9	16,700	8.0				
239	5250	2.27					28,700	14.5	25,400	13	21,500	11.0				
250	5500	2.50					31,900	17.5	28,900	16	25,600	14.0	16,600	9.8		
261	5750	2.73					34,900	21	32,100	19	29,100	17.5	21,900	13.5		
273	6000	2.97					37,900	25	35,200	23	32,400	21	26,300	17.5	17,400	12
284	6250	3.22					40,700	29	38,300	27	35,500	25	30,000	21.5	23,000	17
296	6500	3.49					43,300	33	41,100	31	38,700	30	33,600	26	27,700	22
307	6750	3.76							44,000	36	41,700	34	36,700	30	31,400	26
318	7000	4.04							46,500	41	44,300	39	39,800	35	35,100	31
330	7250	4.34									47,200	45	43,000	41	38,300	37
341	7500	4.64									49,700	50	46,000	47	41,500	42
352	7750	4.96											49,000	54	44,600	48
364	8000	5.28											51,700	60	47,700	56
375	8250	5.62											54,400	66	50,900	62
386	8500	5.96											56,900	74	53,600	70
397	8750	6.32													56,500	78
409	9000	6.68													59,100	86

Double Inlet

7' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	P. H	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
296	6500	3 49	19,600	16												
307	6756	3.76	25,100	21	12,100	12 5										
318	7000	4 04	29,300	27	22,000	21										
330	7250	4.34	33,400	32	27,400	27										
341	7500	4 61	37,000	38	31,700	33										
352	7750	4 96	40,500	44	35,900	40	22,700	27								
364	8000	5 28	43,700	50	39,300	46	28,500	34								
375	8250	5 62	46,900	58	42,800	52	33,400	42								
386	8500	5 96	50,000	66	45,900	60	37,400	50	25,200	35						
397	8750	6.32	52,900	72	49,100	68	41,200	58	31,200	45						
409	9000	6 68	56,000	82	52,100	76	44,900	66	35,800	54	20,600	35				
432	9500	7 45	61,400	100	58,400	96	51,400	84	41,100	71	34,500	58				
455	10000	8 25	66,800	120	64,000	115	57,600	105	51,000	92	43,400	80	33,500	64		
478	10500	9 10			69,300	140	63,800	125	57,500	115	50,800	100	43,100	88	33,000	70
500	11000	9 98					69,500	150	63,800	140	57,700	125	51,000	115	43,400	98
523	11500	10 9					71,900	180	69,800	165	64,200	155	58,200	140	51,500	125
547	12000	11.9					80,100	210	75,600	200	70,400	180	64,800	170	59,300	155
568	12500	12 9							81,400	230	76,500	215	71,200	200	66,100	190
592	13000	13 9							86,400	265	82,100	250	77,200	235	72,400	220
615	13500	15 0									87,800	290	83,100	275	78,500	260
537	14000	16.2									93,000	330	88,700	315	84,600	300
658	14500	17.4											94,500	360	90,400	345
680	15000	18.6											99,500	405	96,100	390
703	15500	19 8													101,000	440
725	16000	21 1													107,000	495

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
500	11000	9.98	33,200	78												
523	11500	10 9	44,000	110	34,000	88										
547	12000	11 9	52,500	140	45,000	120	34,800	98								
568	12500	12 9	60,200	170	53,800	155	47,300	140	37,000	115						
592	13000	13 9	67,200	205	61,500	190	55,500	175	48,200	150	38,800	125				
615	13500	15 0	73,300	240	68,500	225	62,800	210	57,100	190	51,000	170				
637	14000	16.2	79,600	280	75,000	265	70,100	250	65,100	235	59,300	215				
658	14500	17 4	86,200	330	81,200	305	77,000	290	72,200	275	67,500	260				
680	15000	18 6	92,100	375	87,800	355	83,000	335	78,900	320	74,000	300				
703	15500	19 8	97,700	420	93,700	405	89,500	385	85,600	370	80,800	350				
725	16000	21.1	103,000	480	99,500	460	95,500	440	91,800	425	87,200	400				
750	16500	22 5	109,000	535	105,000	515	101,000	500	97,700	480	93,500	455				
772	17000	23 8	114,000	600	111,000	575	107,000	555	104,000	540	99,500	520				
795	17500	25.3			116,000	640	113,000	625	109,000	600	106,000	585				
818	18000	26 7					118,000	690	115,000	665	112,000	655				
840	18500	28 2					124,000	765	121,000	735	117,000	715				
863	19000	29.8							126,000	820	123,000	810				
885	19500	31.4									128,000	885				
908	20000	33									134,000	970				

Double Inlet **Single Width**

7½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
59	1400	0.162	7,800	0.280												
68	1600	0.211	10,800	0.495												
77	1800	0.267	13,500	0.79	7,550	0.46										
85	2000	0.330			11,300	0.85										
94	2200	0.400			14,100	1.25	9,240	0.84								
102	2400	0.475			17,100	1.75	13,100	1.35	6,010	0.73						
111	2600	0.558			19,700	2.4	16,100	1.95	12,000	1.50						
119	2800	0.647					19,100	2.70	15,500	2.20	11,100	1.65				
127	3000	0.743					21,800	3.55	18,600	3.05	15,200	2.55	10,100	1.80		
136	3200	0.825					24,000	4.4	21,600	3.85	18,200	3.80	14,300	2.70	7,500	1.6
144	3400	0.953							24,300	5.1	21,500	4.45	18,600	3.95	14,900	3.2
153	3600	1.07							26,900	6.3	24,300	5.7	21,700	5.1	18,900	4.5
161	3800	1.19							29,300	7.6	27,100	7.1	24,700	6.4	22,000	5.8
170	4000	1.32									29,800	8.7	27,700	8.0	25,200	7.3
178	4200	1.46									32,200	10	30,200	9.7	27,900	8.9
187	4400	1.60											32,800	11.5	30,800	11
195	4600	1.75											35,300	13.5	33,500	13
204	4800	1.90													36,000	15
212	5000	2.06													38,400	17

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
144	3400	0.953	9,000	2.15												
153	3600	1.07	15,200	3.7												
161	3800	1.19	19,200	5.1	9,750	2.9										
170	4000	1.32	22,700	6.6	16,800	5.1										
178	4200	1.46	25,700	8.2	20,700	6.7	12,700	4.5								
187	4400	1.60	28,700	10.0	24,100	8.5	18,600	6.8								
195	4600	1.75	31,500	12.0	27,400	10.5	22,600	8.9	16,000	6.6						
204	4800	1.90	34,100	14.5	30,400	13	26,200	11.0	20,800	9.0	12,200	5.9				
212	5000	2.06	36,800	17	33,200	15	29,400	13.5	24,800	11.5	19,300	9.2				
223	5250	2.27					33,100	16.5	29,200	14.5	24,700	12.5				
233	5500	2.50					36,700	20	33,200	18.5	29,400	16.5	19,100	11.0		
244	5750	2.73					40,200	24	36,900	22	33,500	20	25,300	15.5		
255	6000	2.97					43,500	28	40,400	26	37,200	24	30,300	20	20,000	14.0
265	6250	3.22					46,800	33	44,100	31	40,800	29	34,500	25	26,400	19.5
276	6500	3.49					49,800	38	47,300	36	44,500	34	38,600	30	31,900	25
287	6750	3.76							50,500	42	47,900	39	42,200	35	36,200	30
297	7000	4.04							53,500	48	51,000	45	45,800	40	40,400	36
307	7250	4.34									54,300	52	49,500	47	43,000	42
318	7500	4.64									57,100	58	53,000	54	47,800	48
328	7750	4.96											56,300	62	51,400	56
340	8000	5.28											59,500	68	54,900	64
350	8250	5.62											62,500	76	58,500	72
361	8500	5.96											65,500	81	61,600	80
371	8750	6.32													65,000	90
382	9000	6.68													68,000	100

Double Inlet

7½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
276	6500	3.49	22,600	18 5												
287	6750	3.76	28,900	25	13,900	14 5										
297	7000	4 04	33,700	30	25,300	24										
307	7250	4 31	38,400	37	31,500	31										
318	7500	4 64	42,500	43	36,500	38										
328	7750	4 96	46,500	50	41,300	46	26,100	31								
340	8000	5 28	50,200	58	45,300	52	32,800	39								
350	8250	5 62	53,900	66	49,200	60	38,400	48								
361	8500	5.96	57,500	76	52,900	70	43,000	58	29,000	41						
371	8750	6 32	60,900	84	56,500	78	47,400	66	35,900	52						
382	9000	6 68	64,300	96	60,000	86	51,600	76	41,200	62	23,700	41				
403	9500	7.45	70,600	115	67,100	110	59,100	96	50,700	84	39,700	66				
425	10000	8 25	76,900	140	73,600	135	66,400	120	58,700	105	49,800	92	38,500	74		
447	10500	9.10			79,700	160	73,500	145	66,100	130	58,500	115	49,600	100	38,000	80
468	11000	9 98					80,000	175	73,400	160	66,400	145	58,700	130	49,900	110
488	11500	10 9					86,100	205	80,500	190	73,800	175	67,000	160	59,300	145
510	12000	11 9					92,200	240	87,000	225	80,900	210	74,500	195	68,200	180
531	12500	12 9							93,700	265	88,000	250	81,900	230	76,100	215
552	13000	13 9							99,500	305	94,500	290	88,800	270	83,300	255
574	13500	15 0									101,000	335	95,600	315	90,500	300
595	14000	16 2									107,000	380	102,000	360	97,500	345
615	14500	17 4											109,000	410	104,000	395
635	15000	18 6											115,000	465	111,000	450
657	15500	19 8													117,000	505
678	16000	21 1													123,000	570

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water .00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
468	11000	9.98	38,200	90												
488	11500	10 9	50,600	125	39,200	100										
510	12000	11 9	60,400	160	51,800	140	40,000	110								
531	12500	12 9	69,200	195	61,900	180	54,400	160	42,500	130						
552	13000	13 9	77,200	235	70,700	220	63,900	200	55,500	175	44,000	145				
574	13500	15 0	84,300	275	78,900	260	72,300	240	65,600	220	58,600	200				
595	14000	16.2	91,600	320	86,300	305	80,600	285	74,900	270	68,200	245				
615	14500	17 4	99,100	375	93,400	350	88,500	335	83,000	320	77,500	300				
635	15000	18.6	106,000	430	101,000	410	95,500	390	90,800	370	85,000	345				
657	15500	19.8	112,000	485	108,000	465	103,000	445	98,400	425	93,000	405				
678	16000	21.1	119,000	550	115,000	530	110,000	519	106,000	485	100,000	460				
700	16500	22.5	125,000	615	121,000	595	117,000	575	112,000	550	108,000	525				
720	17000	23.8	131,000	690	127,000	660	123,000	640	119,000	620	115,000	595				
742	17500	25 3			133,000	735	130,000	720	126,000	690	122,000	670				
763	18000	26 7					136,000	795	133,000	765	128,000	750				
784	18500	28 2					143,000	875	139,000	845	135,000	825				
805	19000	29 8							145,000	945	141,000	935				
825	19500	31.4									148,000	1020				
847	20000	33									154,000	1110				

Double Inlet

8' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
56	1400	0.162	8,880	0.32												
64	1600	0.211	12,300	0.56												
72	1800	0.267	15,300	0.90	8,600	0.52										
79	2000	0.330			12,900	0.97										
87	2200	0.400			16,400	1.40	10,500	0.96								
96	2400	0.475			19,500	2.00	11,900	1.55	6,850	0.83						
103	2600	0.558			22,500	2.75	18,100	2.25	13,600	1.70						
111	2800	0.647					21,800	3.10	17,700	2.55	12,600	1.90				
119	3000	0.743					21,800	4.05	21,200	3.45	17,300	2.90	11,500	2.00		
127	3200	0.825					27,400	5	24,600	4.4	20,700	3.75	16,300	3.05	8,550	1.85
135	3400	0.953							27,700	5.8	21,500	5.1	21,200	4.5	17,600	3.65
143	3600	1.07							30,700	7.2	27,700	6.5	21,800	5.8	21,600	5.2
151	3800	1.19							33,400	8.7	30,800	8.1	28,200	7.3	25,200	6.6
159	4000	1.32									34,000	9.9	31,500	9.1	28,800	8.3
167	4200	1.46									36,700	11.5	34,400	11.0	31,800	10.0
175	4400	1.60											37,400	13.0	35,200	12.5
183	4600	1.75											40,300	15.5	38,200	14.5
191	4800	1.90													41,000	17.0
199	5000	2.06													43,800	19.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
135	3400	0.953	10,300	2.45												
143	3600	1.07	17,300	4.2												
151	3800	1.19	21,900	5.8	11,100	3.3										
159	4000	1.32	25,800	7.6	19,200	5.8										
167	4200	1.46	29,300	9.3	23,600	7.7	14,500	5.1								
175	4400	1.60	32,800	11.5	27,400	9.7	21,200	7.7								
183	4600	1.75	35,900	14.0	31,200	12	25,800	10.0	18,200	7.5						
191	4800	1.90	38,900	16.5	34,600	15	29,800	12.5	23,700	10.0	13,900	6.7				
199	5000	2.06	42,000	19	37,800	17	33,500	15.0	28,300	13.0	22,000	10.5				
209	5250	2.27					37,700	18.5	33,300	16.5	28,200	14.5				
219	5500	2.50					41,800	22.5	37,900	21	33,600	18.5	21,800	13		
229	5750	2.73					45,800	27	42,100	25	38,200	23	28,800	18		
239	6000	2.97					49,700	32	46,100	30	42,500	28	34,500	23	22,800	16
249	6250	3.22					53,300	38	50,200	35	46,500	33	39,300	28	30,200	22
258	6500	3.49					56,800	44	53,900	41	50,700	39	44,000	34	36,400	28
268	6750	3.76							57,600	48	54,600	45	48,200	40	41,200	34
278	7000	4.04							60,900	54	58,200	52	52,200	46	46,000	41
288	7250	4.34									62,000	58	55,500	54	50,200	48
298	7500	4.64									65,200	66	60,400	62	54,400	56
308	7750	4.96											64,100	70	58,500	64
318	8000	5.28											67,800	78	62,500	72
328	8250	5.62											71,200	88	66,600	82
338	8500	5.96											74,600	96	70,200	92
348	8750	6.32													74,000	105
358	9000	6.68													77,500	115

Double Inlet 8' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
258	6500	3 49	25,700	21												
268	6750	3 76	33,000	28	15,900	16 5										
278	7000	4.04	38,400	35	28,900	27										
288	7250	4 34	43,800	42	35,900	35										
298	7500	4.64	48,500	50	41,600	43										
308	7750	4 96	53,000	58	47,100	52	29,800	35								
318	8000	5 28	57,300	66	51,600	60	37,400	45								
328	8250	5 62	61,500	76	56,100	70	43,800	54								
338	8500	5 96	65,500	86	60,300	78	49,000	66	33,100	46						
348	8750	6 32	69,400	96	64,400	88	54,100	76	40,900	58						
358	9000	6 68	73,300	110	68,500	100	58,900	86	47,000	70	27,000	46				
378	9500	7 45	80,500	135	76,600	125	67,500	110	57,800	96	45,300	76				
398	10000	8 25	87,600	160	84,000	150	75,700	135	67,000	120	56,900	105	43,900	84		
418	10500	9.10			91,000	180	83,700	165	75,300	150	66,000	135	56,500	115	43,300	92
438	11000	9 98					91,300	200	83,600	180	75,700	165	66,900	150	56,800	130
458	11500	10 9					98,300	235	91,700	220	84,200	200	76,400	185	67,500	165
498	12000	11 9					105,000	275	99,200	260	92,300	240	85,000	220	77,600	205
518	12500	12 9							107,000	300	100,000	285	93,400	260	86,800	245
538	13000	13.9							113,000	350	108,000	330	101,000	310	95,000	290
558	13500	15 0									115,000	380	109,000	360	103,000	340
575	14000	16 2									122,000	435	116,000	410	111,000	390
595	14500	17 4											124,000	470	119,000	450
615	15000	18.6											131,000	530	126,000	515
635	15500	19 8													133,000	575
655	16000	21.1													140,000	650

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
438	11000	9 98	43,500	100												
458	11500	10 9	57,700	145	44,700	115										
478	12000	11 9	68,800	180	59,000	160	45,600	130								
498	12500	12 9	78,900	225	70,500	205	62,000	180	48,500	150						
518	13000	13.9	88,000	270	80,600	250	72,800	225	63,200	200	50,900	165				
538	13500	15 0	96,100	315	90,000	295	82,400	275	74,800	250	66,900	225				
558	14000	16 2	104,000	365	98,400	350	92,000	325	85,400	305	77,700	280				
575	14500	17 4	113,000	430	107,000	400	101,000	380	94,600	360	88,500	340				
595	15000	18 6	121,000	490	115,000	465	109,000	440	103,000	420	97,000	395				
615	15500	19.8	128,000	555	123,000	530	117,000	505	112,000	485	106,000	460				
635	16000	21 1	135,000	625	131,000	605	125,000	580	120,000	555	114,000	525				
655	16500	22.5	143,000	700	138,000	675	133,000	655	128,000	630	123,000	600				
675	17000	23 8	149,000	785	145,000	750	141,000	725	136,000	705	131,000	680				
695	17500	25.3			152,000	840	148,000	820	143,000	785	139,000	765				
715	18000	26.7					155,000	905	151,000	870	146,000	855				
735	18500	28 2					162,000	1000	158,000	965	153,000	940				
755	19000	29.8							165,000	1080	161,000	1050				
775	19500	31 4									168,000	1150				
795	20000	33									175,000	1250				

Double Inlet

8½' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1/8" Water .073 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .505 ozs. per sq. inch	
52	1400	0.162	9,900	0.36												
60	1600	0.211	13,800	0.63												
68	1800	0.267	17,200	1	9,660	0.59										
75	2000	0.330			14,500	1.10										
82	2200	0.400			18,400	1.60	11,800	1.05								
90	2400	0.475			21,900	2.25	16,700	1.75	7,700	0.93						
97	2600	0.558			25,200	3.1	20,600	2.50	15,300	1.90						
105	2800	0.647					24,400	3.45	19,900	2.85	14,200	2.10				
112	3000	0.743					27,900	4.55	23,800	3.90	19,500	3.25	12,900	2.3		
120	3200	0.825					30,800	5.6	27,600	4.95	23,200	4.2	18,400	3.4	9,600	2.05
127	3400	0.953							31,100	6.5	27,500	5.7	23,800	5.0	19,100	4.1
135	3600	1.07							34,500	8.1	31,100	7.3	27,800	6.5	24,200	5.8
142	3800	1.19							37,500	9.8	34,600	9.1	31,600	8.2	28,200	7.4
150	4000	1.32									38,200	11	35,400	10.0	32,300	9.3
157	4200	1.46									41,200	13	38,700	12.5	35,800	11.5
165	4400	1.60											42,000	14.5	39,500	14.0
172	4600	1.75											45,200	17.5	42,900	16.5
180	4800	1.90													46,000	19
187	5000	2.06													49,200	22

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
127	3400	0.953	11,600	2.75												
135	3600	1.07	19,500	4.75												
142	3800	1.19	24,600	6.5	12,500	3.75										
150	4000	1.32	29,000	8.5	21,500	6.5										
157	4200	1.46	32,900	10.5	26,500	8.6	16,300	5.7								
165	4400	1.60	36,800	13.0	30,800	11.0	23,900	8.7								
172	4600	1.75	40,300	15.5	35,000	13.5	28,900	11.5	20,500	8.4						
180	4800	1.90	43,700	18.5	38,800	16.5	33,500	14	26,700	11.5	15,700	7.5				
187	5000	2.06	47,100	21.5	42,500	19.5	37,600	17	31,800	11.5	24,700	11.5				
197	5250	2.27					42,300	21	37,400	19.0	31,600	16				
206	5500	2.50					47,000	26	42,600	23.5	37,700	21	24,500	14.5		
215	5750	2.73					51,500	31	47,300	28	42,900	26	32,300	20		
225	6000	2.97					55,800	35	51,800	34	47,700	31	38,700	26	25,600	18
234	6250	3.22					59,900	42	56,500	40	52,300	37	44,200	32	33,800	25
242	6500	3.49					63,800	49	60,500	46	57,000	44	49,500	38	40,800	32
253	6750	3.76							64,800	54	61,300	50	54,100	44	46,300	39
262	7000	4.04							68,500	60	65,300	58	58,700	52	51,700	46
271	7250	4.34									69,500	66	63,400	60	56,400	54
281	7500	4.64									73,100	74	67,800	70	61,100	62
290	7750	4.96											72,000	78	65,700	72
299	8000	5.28											76,100	88	70,200	82
308	8250	5.62											79,900	98	74,900	92
318	8500	5.96											83,800	110	79,000	105
327	8750	6.32													83,100	115
337	9000	6.68													87,000	125

Double Inlet

8½' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
242	6500	3.49	28,900	24												
253	6750	3.76	37,000	32	17,800	18.5										
262	7000	4.01	43,200	39	32,400	30										
271	7250	4.31	49,200	47	40,400	40										
281	7500	4.64	51,500	56	46,700	48										
290	7750	4.96	59,500	64	52,900	58	33,400	39								
299	8000	5.28	64,400	74	58,000	68	42,000	50								
308	8250	5.62	69,000	84	63,000	78	49,200	62								
318	8500	5.96	73,600	96	67,700	88	55,000	74	37,100	52						
327	8750	6.32	77,900	105	72,300	100	60,600	86	46,000	66						
337	9000	6.68	82,400	120	76,800	110	66,100	98	52,800	80	30,400	52				
356	9500	7.45	90,500	150	86,000	140	75,700	125	65,000	110	50,800	85				
374	10000	8.25	98,500	180	94,300	170	85,000	155	75,200	135	63,800	120	49,300	91		
394	10500	9.10			102,000	205	94,000	185	84,600	165	74,800	150	63,400	130	48,600	105
412	11000	9.98					103,000	225	94,000	205	85,000	185	75,000	165	63,900	145
431	11500	10.9					110,000	265	103,000	245	94,500	225	85,800	205	75,900	185
450	12000	11.9					118,000	305	111,000	290	104,000	270	95,400	245	87,300	230
468	12500	12.9							120,000	340	113,000	320	105,000	295	97,500	275
487	13000	13.9							127,000	390	121,000	370	114,000	345	107,000	325
507	13500	15.0									123,000	430	122,000	405	116,000	380
525	14000	16.2									137,000	485	131,000	465	125,000	440
542	14500	17.4											139,000	525	133,000	505
562	15000	18.6											147,000	595	142,000	575
580	15500	19.8													149,000	645
598	16000	21.1													158,000	730

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch	
412	11000	9.98	48,900	115												
431	11500	10.9	64,800	160	50,200	130										
450	12000	11.9	77,300	205	66,300	180	51,300	145								
468	12500	12.9	88,600	250	78,200	230	69,000	205	54,500	165						
487	13000	13.9	99,000	305	90,500	280	81,800	255	71,000	225	57,100	185				
507	13500	15.0	108,000	355	101,000	330	92,500	305	84,000	280	75,000	255				
525	14000	16.2	117,000	410	111,000	390	103,000	365	96,000	345	87,400	315				
542	14500	17.4	127,000	480	120,000	450	113,000	430	106,000	405	99,400	380				
562	15000	18.6	136,000	550	129,000	525	122,000	495	116,000	470	109,000	445				
580	15500	19.8	144,000	620	138,000	590	132,000	570	126,000	545	119,000	515				
598	16000	21.1	152,000	705	147,000	680	141,000	650	135,000	620	128,000	590				
618	16500	22.5	160,000	785	155,000	760	149,000	740	144,000	705	138,000	670				
635	17000	23.8	168,000	880	163,000	845	158,000	815	153,000	795	147,000	760				
655	17500	25.3			171,000	945	166,000	925	161,000	885	156,000	860				
673	18000	26.7					174,000	1020	170,000	980	164,000	960				
693	18500	28.2					182,000	1120	177,000	1080	172,000	1050				
712	19000	29.8							186,000	1210	181,000	1200				
730	19500	31.4									189,000	1300				
750	20000	33									197,000	1430				

Double Inlet

9' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
50	1400	0.162	11,200	0.40												
57	1600	0.211	15,500	0.71												
64	1800	0.267	19,400	1.15	10,900	0.66										
71	2000	0.330			16,300	1.25										
78	2200	0.400			20,600	1.80	13,300	1.20								
85	2400	0.475			24,600	2.55	18,800	2.00	8,650	1.05						
92	2600	0.558			28,300	3.45	23,200	2.85	17,200	2.15						
99	2800	0.647					27,500	3.90	22,400	3.20	15,900	2.35				
106	3000	0.743					31,300	5.1	26,800	4.35	21,900	3.65	14,600	2.55		
113	3200	0.825					34,600	6.3	31,000	5.6	26,100	4.75	20,600	3.85	10,800	2.3
120	3400	0.953							35,000	7.3	30,900	6.4	26,700	5.7	21,500	4.6
127	3600	1.07							38,800	9.1	34,900	8.2	31,200	7.3	27,200	6.5
134	3800	1.19							42,100	11	39,000	10.0	35,600	9.2	31,700	8.3
141	4000	1.32									42,900	12.5	39,800	11.5	36,300	10.5
149	4200	1.46									46,300	17.5	43,500	14.0	40,200	12.5
155	4400	1.60											47,200	16.5	44,400	15.5
163	4600	1.75											50,800	19.5	48,200	18.5
170	4800	1.90													51,700	21.5
177	5000	2.06													55,300	25

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
120	3400	0.953	13,000	3.1												
127	3600	1.07	21,900	5.3												
134	3800	1.19	27,600	7.3	14,000	4.2										
141	4000	1.32	32,700	9.5	21,200	7.3										
149	4200	1.46	37,000	12.0	29,800	9.7	18,300	6.5								
155	4400	1.60	41,300	14.5	34,600	12.5	26,800	9.8								
163	4600	1.75	45,300	17.5	39,400	15.0	32,500	12.5	23,000	9.5						
170	4800	1.90	49,200	20.5	43,600	18.5	37,600	16.0	30,000	13.0	17,600	8.5				
177	5000	2.06	53,000	24	47,800	22	42,300	19.0	35,700	16.5	27,700	13.0				
186	5250	2.27					47,500	23.5	42,000	21	35,600	18.0				
194	5500	2.50					52,800	29	47,800	26	42,400	23.5	27,500	16.0		
204	5750	2.73					57,800	34	53,100	32	48,200	29	36,400	22.5		
212	6000	2.97					62,700	41	58,200	38	53,600	35	43,500	29	28,800	20
221	6250	3.22					67,300	48	63,500	45	58,700	41	49,600	35	38,000	28
230	6500	3.49					71,600	54	68,000	52	64,000	49	55,600	43	45,900	36
239	6750	3.76							72,800	60	69,000	56	60,800	50	52,000	43
248	7000	4.04							77,000	68	73,500	64	66,000	58	58,100	52
256	7250	4.34									78,200	74	71,300	68	63,300	62
266	7500	4.64									82,100	84	76,200	78	68,700	70
274	7750	4.96											81,000	88	74,000	80
283	8000	5.28											85,500	100	79,000	92
291	8250	5.62											90,000	110	84,000	105
301	8500	5.96											94,200	120	88,800	115
309	8750	6.32													93,500	130
319	9000	6.68													97,900	145

Double Inlet

9' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
230	6500	3.49	32,500	27												
239	6750	3.76	41,600	36	20,000	20.5										
248	7000	4.04	48,500	44	36,500	34										
256	7250	4.34	55,300	54	45,400	44										
266	7500	4.64	61,200	62	52,500	54										
274	7750	4.96	67,000	72	59,500	66	37,600	44								
283	8000	5.28	72,300	84	65,200	76	47,200	56								
291	8250	5.62	77,500	94	71,000	88	55,300	70								
301	8500	5.96	82,700	110	76,000	100	61,900	82	41,800	58						
309	8750	6.32	87,500	120	81,400	110	68,200	96	51,600	74						
319	9000	6.68	92,500	135	86,400	125	74,400	110	59,400	90	34,100	58				
336	9500	7.45	102,000	170	96,700	160	85,100	140	73,000	120	57,100	96				
354	10000	8.25	111,000	200	108,000	190	95,500	170	84,500	155	71,800	130	55,500	105		
372	10500	9.10			115,000	230	108,000	210	95,100	190	84,100	170	71,400	145	54,700	115
389	11000	9.98					115,000	250	106,000	230	95,500	210	84,400	185	71,800	160
407	11500	10.9					124,000	300	116,000	275	106,000	255	96,500	230	85,300	205
424	12000	11.9					133,000	345	125,000	330	116,000	300	107,000	280	98,000	260
442	12500	12.9							135,000	380	127,000	360	118,000	330	110,000	310
460	13000	13.9							143,000	440	136,000	415	128,000	390	120,000	370
477	13500	15.0									146,000	480	138,000	455	130,000	430
495	14000	16.2									154,000	545	147,000	520	140,000	495
513	14500	17.4											156,000	590	150,000	570
530	15000	18.6											165,000	670	159,000	650
548	15500	19.8													168,000	725
565	16000	21.1													177,000	820

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
389	11000	9.98	55,000	130												
407	11500	10.9	72,900	180	56,400	145										
424	12000	11.9	86,800	230	74,500	200	57,600	160								
442	12500	12.9	99,700	285	89,000	255	78,300	230	61,300	185						
460	13000	13.9	111,000	310	102,000	315	92,000	285	79,800	250	64,200	210				
477	13500	15.0	121,000	400	114,000	375	104,000	345	94,500	320	84,500	285				
495	14000	16.2	132,000	465	124,000	440	116,000	410	108,000	385	98,100	355				
513	14500	17.4	143,000	540	135,000	505	127,000	480	120,000	455	112,000	430				
530	15000	18.6	153,000	620	145,000	590	138,000	555	131,000	530	123,000	500				
548	15500	19.8	162,000	700	155,000	670	148,000	640	142,000	615	134,000	580				
565	16000	21.1	171,000	790	165,000	760	158,000	730	152,000	700	144,000	665				
583	16500	22.5	180,000	885	174,000	855	168,000	830	162,000	795	155,000	755				
600	17000	23.8	189,000	990	183,000	950	178,000	920	172,000	890	165,000	860				
618	17500	25.3			192,000	1060	187,000	1040	181,000	995	176,000	965				
636	18000	26.7					196,000	1150	191,000	1100	185,000	1080				
654	18500	28.2					205,000	1260	200,000	1220	194,000	1180				
671	19000	29.8							209,000	1360	204,000	1340				
689	19500	31.4									213,000	1460				
707	20000	33									221,000	1600				

Double Inlet

10' Steel Plate Fan—Design 2

Single Widt

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1/8" Water .073 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pres 7/8" Wate .505 ozs. p sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.
45	1400	0.162	13,800	0.495												
51	1600	0.211	19,200	0.88												
57	1800	0.267	23,900	1.4	13,400	0.81										
64	2000	0.330			20,200	1.50										
70	2200	0.400			25,500	2.20	16,400	1.50								
76	2400	0.475			30,300	3.15	23,200	2.45	10,700	1.30						
83	2600	0.558			35,000	4.3	28,700	3.5	21,200	2.65						
89	2800	0.647					33,900	4.8	27,600	3.95	19,600	2.95				
95	3000	0.743					38,700	6.3	33,100	5.4	27,000	4.5	18,000	3.15		
102	3200	0.825					42,600	7.8	38,300	6.9	32,200	5.8	25,500	4.75	13,300	2
108	3400	0.953							43,100	9.0	38,100	7.9	33,000	7.0	26,500	5
115	3600	1.07							47,800	11.0	43,100	10.0	38,600	9.0	33,600	8
121	3800	1.19							52,000	13.5	48,000	12.5	43,900	11.5	39,200	1
127	4000	1.32									53,000	15.5	49,100	14.0	44,800	13
134	4200	1.46									57,100	18	53,600	17.0	49,600	1
140	4400	1.60											58,200	20.5	54,800	1
146	4600	1.75											62,700	24	59,500	23
153	4800	1.90													63,900	27
159	5000	2.06													68,200	31

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Press 3" Wate 1.73 ozs. p sq. inch	
108	3400	0.953	16,100	3.85												
115	3600	1.07	27,000	6.6												
121	3800	1.19	34,100	9.1	17,300	5.2										
127	4000	1.32	40,300	12.0	29,800	9.0										
134	4200	1.46	45,600	14.5	36,700	12.0	22,600	8.0								
140	4400	1.60	51,000	18.0	42,800	15.0	33,100	12.0								
146	4600	1.75	56,000	21.5	48,500	18.5	40,100	15.5	28,400	11.5						
153	4800	1.90	60,000	26	53,900	23	46,500	19.5	37,000	16	21,700	10.5				
159	5000	2.06	65,400	30	58,900	27	52,200	23.5	44,100	20	34,200	16.0				
167	5250	2.27					58,700	29	51,900	26	43,900	22.5				
175	5500	2.50					65,100	35	59,000	32	52,200	29	33,900	20		
183	5750	2.73					71,400	42	65,600	39	59,500	36	41,900	28		
191	6000	2.97					77,400	50	71,900	47	66,100	43	53,700	35	35,500	25
199	6250	3.22					83,000	58	78,200	56	72,500	50	61,300	44	47,000	34
207	6500	3.49					88,400	68	84,000	64	79,000	60	68,500	52	56,700	44
215	6750	3.76							89,800	74	85,000	70	75,000	62	64,200	54
223	7000	4.04							95,000	84	90,500	80	81,500	72	71,700	64
230	7250	4.34									96,500	92	87,900	84	78,200	74
239	7500	4.64									102,000	105	94,000	96	84,700	86
246	7750	4.96											100,000	110	91,100	98
255	8000	5.28											106,000	120	97,500	115
262	8250	5.62											111,000	135	104,000	130
271	8500	5.96											116,000	150	110,000	145
278	8750	6.32													115,000	160
286	9000	6.68													121,000	175

Double Inlet 10' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M. Static Pressure 3½″ Water 2.02 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure 4′ Water 2.31 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure 5″ Water 2.89 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure 6″ Water 3.47 ozs. per sq. inch	P. H.	Volume C.F.M. Static Pressure 7″ Water 4.05 ozs. per sq. inch	H. P	Volume C.F.M. Static Pressure 8″ Water 4.63 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure 9″ Water 5.2 ozs. per sq. inch	H. P.
207	6500	3.49	40,100	33												
215	6750	3.76	51,300	41	24,800	26										
223	7000	4.04	59,800	54	45,000	42										
230	7250	4.34	68,300	66	56,000	54										
239	7500	4.64	75,500	78	61,700	68										
246	7750	4.96	82,600	90	73,400	80	46,400	54								
255	8000	5.28	89,200	105	80,400	91	58,200	70								
262	8250	5.62	95,600	115	87,500	110	68,200	86								
271	8500	5.96	102,000	135	93,800	125	76,400	100	51,500	72						
278	8750	6.32	108,000	150	100,000	140	84,200	120	63,700	92						
286	9000	6.68	114,000	170	107,000	155	91,700	135	73,200	110	42,100	72				
302	9500	7.45	125,000	205	119,000	195	105,000	170	90,000	150	70,500	120				
318	10000	8.25	136,000	245	131,000	235	118,000	210	104,000	190	88,500	165	68,400	130		
334	10500	9.10			142,000	280	130,000	260	117,000	230	104,000	210	88,000	180	67,500	145
350	11000	9.98					112,000	310	130,000	285	118,000	260	104,000	230	88,500	200
366	11500	10.9					153,000	370	143,000	340	131,000	310	119,000	285	105,000	255
382	12000	11.9					164,000	425	154,000	405	144,000	370	132,000	315	121,000	320
398	12500	12.9							166,000	470	156,000	440	145,000	410	135,000	385
414	13000	13.9							177,000	540	168,000	515	158,000	480	148,000	455
430	13500	15.0									180,000	595	170 000	560	161,000	530
446	14000	16.2									190,000	675	181,000	640	173,000	610
460	14500	17.4											193,000	730	185,000	705
477	15000	18.6											204,000	825	196,000	800
493	15500	19.8													207,000	895
508	16000	21.1													218,000	1010

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.08 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
350	11000	9.98	67,900	160												
366	11500	10.9	90 000	220	69,500	180										
382	12000	11.9	107,000	285	92,000	245	71,000	200								
398	12500	12.9	123,000	350	110,000	315	96,500	280	75,600	230						
414	13000	13.9	137,000	420	126,000	390	113,000	350	98,500	310	79,300	260				
430	13500	15.0	150,000	490	140,000	460	128,000	425	117,000	390	104,000	350				
446	14000	16.2	163,000	570	153,000	540	144,000	510	133,000	475	121,000	435				
460	14500	17.4	176,000	670	166,000	625	157,000	595	148,000	565	138,000	530				
477	15000	18.6	188,000	765	179,000	725	170,000	690	161,000	655	151,000	615				
493	15500	19.8	200,000	860	191,000	825	183,000	790	175,000	760	165,000	715				
508	16000	21.1	211,000	975	203,000	940	195,000	905	188,000	865	178,000	820				
525	16500	22.5	222,000	1090	215,000	1050	207,000	1020	200,000	980	191,000	930				
540	17000	23.8	233,000	1220	226,000	1170	219,000	1130	212,000	1100	204,000	1060				
556	17500	25.3			237,000	1310	230,000	1280	223,000	1230	216,000	1190				
572	18000	26.7					242,000	1410	236,000	1360	228,000	1330				
588	18500	28.2					253,000	1560	246,000	1500	239,000	1460				
604	19000	29.8							258,000	1680	251,000	1660				
620	19500	31.4									262,000	1810				
635	20000	33									273,000	1980				

Double Inlet

11' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .073 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch	
40	1400	0 162	16,700	0 60												
46	1600	0.211	23,200	1.05												
52	1800	0 267	28,900	1.7	16,200	0.98										
58	2000	0 330			24,400	1.85										
64	2200	0 400			30,800	2 7	19,900	1 80								
69	2400	0.475			36,700	3 8	28,100	2.95	12,900	1.55						
75	2600	0 558			42,300	5 2	31,700	4 25	25,700	3.25						
81	2800	0 617					41,000	5.8	33,400	4.75	23,800	3.55				
87	3000	0.743					46,800	7.6	40,000	6 50	32,600	5.4	21,700	3 8		
93	3200	0.825					51,600	9 4	46,300	8 30	39,000	7 1	30,800	5 8	16,100	3.45
98	3400	0 953							52,200	11.0	46,100	9.6	39,900	8.4	32,100	6 9
104	3600	1 07							57,900	13.5	52,200	12.0	46,700	11 0	40,600	9.7
110	3800	1.19							62,900	16 5	58,200	15.5	53,100	14 0	47,400	12.5
116	4000	1.32									64,000	18.5	59,500	17.0	54,100	15 5
121	4200	1.46									69,100	22	65,000	21.0	60,000	19 0
127	4400	1.60											70,500	24 5	66,300	23 5
133	4600	1.75											75,900	29	72,000	28
139	4800	1 90													77,300	32
145	5000	2.06													82,500	37

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3 "Water 1.73 ozs. per sq. inch	
98	3400	0.953	19,500	4.65												
104	3600	1.07	32,600	8 0												
110	3800	1 19	41,300	11 0	21,000	6.3										
116	4000	1 32	48,800	14.5	36,100	11 0										
121	4200	1.46	55,300	17 5	44,500	14 5	27,300	9 6								
127	4400	1.60	61,800	21 5	51,800	18 5	40,100	14.5								
133	4600	1.75	67,700	26	58,800	23	48,500	19.0	34,400	14 0						
139	4800	1 90	73,400	31	65,200	28	56,200	23.5	44,800	19.5	26,300	12.5				
145	5000	2 06	79,100	36	71,300	32	63,200	29	53,400	24 5	41,400	19 5				
152	5250	2 27					71,000	35	62,800	32	53,100	27				
159	5500	2.50					78,800	43	71,500	39	63,300	35	41,100	24		
166	5750	2 73					86,400	52	79,400	47	71,900	43	54,300	34		
174	6000	2.97					93,600	62	87,000	56	80,000	52	65,000	43	43,000	30
181	6250	3.22					100,000	72	91,000	66	87,800	62	74,200	52	56,800	42
188	6500	3.49					107,000	82	102,000	78	95,600	74	83,000	64	68,500	54
195	6750	3.76							109,000	90	103,000	84	90,900	74	77,700	64
203	7000	4.04							115,000	100	110,000	98	98,500	86	86,800	78
210	7250	4.34									117,000	110	107,000	100	94,600	90
217	7500	4.64									113,000	125	114,000	115	103,000	105
224	7750	4.96											121,000	130	110,000	120
231	8000	5.28											128,000	150	118,000	135
238	8250	5.62											134,000	165	126,000	155
246	8500	5.96											141,000	180	133,000	175
253	8750	6.32													140,000	195
260	9000	6 68													146,000	215

Double Inlet

11' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
188	6500	3.49	48,500	40												
195	6750	3.76	62,100	54	29,900	31										
203	7000	4.04	72,500	66	54,500	52										
210	7250	4.34	82,500	80	67,800	66										
217	7500	4.64	91,500	94	78,300	82										
224	7750	4.96	100,000	110	88,800	98	56,100	66								
231	8000	5.28	108,000	125	97,300	115	70,500	84								
238	8250	5.62	116,000	140	106,000	130	82,500	105								
246	8500	5.96	123,000	160	114,000	150	92,500	125	62,300	88						
253	8750	6.32	131,000	180	121,000	165	102,000	145	78,000	110						
260	9000	6.68	138,000	205	129,000	185	111,000	165	88,500	135	51,000	88				
275	9500	7.45	152,000	250	144,000	235	127,000	210	109,000	180	85,400	115				
290	10000	8.25	165,000	300	158,000	285	143,000	255	128,000	230	107,000	200	82,900	155		
304	10500	9.10			171,000	340	158,000	315	142,000	280	126,000	250	107,000	220	81,800	175
319	11000	9.98					172,000	375	158,000	345	143,000	315	126,000	280	107,000	240
333	11500	10.9					185,000	445	173,000	410	159,000	380	144,000	345	128,000	310
348	12000	11.9					198,000	515	187,000	490	174,000	450	160,000	415	147,000	385
362	12500	12.9							201,000	570	189,000	535	176,000	495	164,000	465
377	13000	13.9							214,000	655	203,000	620	191,000	580	179,000	550
392	13500	15.0									218,000	720	206,000	675	194,000	640
406	14000	16.2									230,000	815	220,000	780	210,000	740
419	14500	17.4											234,000	885	224,000	855
434	15000	18.6											246,000	1000	238,000	970
448	15500	19.8													251,000	1090
462	16000	21.1													265,000	1230

P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
319	11000	9.98	82,300	195												
333	11500	10.9	109,000	270	84,200	215										
348	12000	11.9	130,000	345	111,000	300	86,000	240								
362	12500	12.9	149,000	425	133,000	380	117,000	340	91,700	280						
377	13000	13.9	166,000	510	152,000	470	137,000	425	119,000	375	96,200	315				
392	13500	15.0	181,000	595	170,000	560	155,000	515	141,000	475	126,000	425				
06	14000	16.2	197,000	695	186,000	655	173,000	615	161,000	580	147,000	530				
19	14500	17.4	213,000	810	201,000	755	190,000	720	179,000	685	167,000	640				
34	15000	18.6	228,000	930	217,000	880	206,000	835	195,000	790	183,000	745				
48	15500	19.8	242,000	1,040	232,000	1,000	221,000	955	212,000	920	200,000	870				
62	16000	21.1	256,000	1,180	246,000	1,140	236,000	1,090	227,000	1,050	216,000	995				
77	16500	22.5	269,000	1,320	260,000	1,280	251,000	1,240	241,000	1,190	232,000	1,130				
92	17000	23.8	282,000	1,480	274,000	1,420	265,000	1,370	257,000	1,330	246,000	1,280				
06	17500	25.3			287,000	1,580	279,000	1,550	270,000	1,480	263,000	1,450				
20	18000	26.7					292,000	1,710	286,000	1,650	276,000	1,620				
35	18500	28.2					306,000	1,890	298,000	1,820	290,000	1,770				
50	19000	29.8							312,000	2,030	304,000	2,010				
64	19500	31.4									318,000	2,190				
78	20000	33									330,000	2,390				

Double Inlet **Single Width**

12' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1/8" Water .073 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .289 ozs. per sq. inch		Static Pressure 5/8" Water .361 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pressure 7/8" Water .505 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
37	1400	0.162	20,000	.72												
42	1600	0.211	27,600	1.25												
48	1800	0.267	31,500	2.05	19,300	1.15										
53	2000	0.330			29,000	2.2										
58	2200	0.400			36,800	3.2	23,600	2.15								
64	2400	0.475			43,700	4.5	33,400	3.5	15,400	1.85						
69	2600	0.558			50,100	6.2	41,400	5.0	30,600	3.85						
74	2800	0.647					48,900	6.9	39,800	5.7	28,300	4.2				
80	3000	0.743					55,800	9.1	47,700	7.8	38,900	6.5	25,900	4.55		
85	3200	0.825					61,500	11	55,200	9.9	46,500	8.4	36,700	6.9	19,200	4.15
90	3400	0.953							62,200	13.0	55,000	11.5	47,500	10.0	38,200	8.2
96	3600	1.07							69,000	16.0	62,200	14.5	55,600	13.0	48,500	11.5
101	3800	1.19							75,000	19.5	69,300	18	63,300	16.5	56,500	15.0
106	4000	1.32									76,400	22	70,800	20.5	64,500	18.5
111	4200	1.46									82,400	26	77,100	25	71,500	22.5
117	4400	1.60											84,000	29	79,000	28
122	4600	1.75											90,400	35	85,800	33
127	4800	1.90													92,100	38
132	5000	2.06													98,400	44

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .87 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
90	3400	0.953	23,200	5.5												
96	3600	1.07	38,900	9.5												
101	3800	1.19	49,100	13	25,000	7.5										
106	4000	1.32	58,100	17	43,000	13										
111	4200	1.46	65,800	21	52,900	17	32,600	11.5								
117	4400	1.60	73,600	26	61,600	22	47,700	17.5								
122	4600	1.75	80,600	31	70,000	27	57,800	22.5	41,000	17						
127	4800	1.90	87,500	37	77,600	33	67,000	28	53,400	23	31,300	15.0				
132	5000	2.06	94,200	43	85,000	39	76,200	34	63,600	29	49,300	23.5				
139	5250	2.27					84,600	42	74,800	38	63,300	32				
146	5500	2.50					93,800	52	85,000	47	75,400	42	48,900	29		
153	5750	2.73					103,000	62	94,500	56	85,700	52	64,700	40		
159	6000	2.97					111,000	72	104,000	68	95,400	62	77,500	52	51,300	36
166	6250	3.22					120,000	84	113,000	80	105,000	74	88,100	64	67,700	50
172	6500	3.49					127,000	98	121,000	92	114,000	88	98,900	76	81,700	64
179	6750	3.76							129,000	105	123,000	100	108,000	88	92,600	78
186	7000	4.04							137,000	120	131,000	115	117,000	105	104,000	92
192	7250	4.34									139,000	130	127,000	120	113,000	110
199	7500	4.64									146,000	150	136,000	140	122,000	125
205	7750	4.96											144,000	155	132,000	140
212	8000	5.28											152,000	175	141,000	165
219	8250	5.62											160,000	195	150,000	185
226	8500	5.96											168,000	215	158,000	205
232	8750	6.32													166,000	230
239	9000	6.68													174,000	255

Double Inlet

12 ' Steel Plate Fan—Design 2—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
172	6500	3.49	57,800	48												
179	6750	3.76	74,000	64	35,600	37										
186	7000	4.04	86,300	78	64,800	60										
192	7250	4.34	98,100	94	80,600	80										
199	7500	4.61	109,000	110	93,300	96										
205	7750	4.96	119,000	130	106,000	115	66,900	78								
212	8000	5.28	129,000	150	116,000	135	84,000	100								
219	8250	5.62	138,000	170	126,000	155	98,400	125								
226	8500	5.96	147,000	195	135,000	175	110,000	145	74,300	105						
232	8750	6.32	156,000	215	145,000	200	121,000	170	92,000	130						
239	9000	6.68	165,000	245	154,000	225	132,000	195	105,000	160	60,700	105				
252	9500	7.45	181,000	300	172,000	280	151,000	245	130,000	215	102,000	170				
265	10000	8.25	197,000	355	189,000	340	170,000	305	150,000	275	128,000	235	98,700	185		
279	10500	9.10			201,000	405	188,000	370	169,000	335	150,000	300	127,000	260	97,300	205
292	11000	9.98					205,000	450	188,000	410	170,000	370	150,000	330	128,000	290
305	11500	10.9					221,000	530	206,000	490	189,000	450	172,000	410	152,000	370
319	12000	11.9					236,000	615	223,000	580	207,000	540	191,000	495	175,000	400
332	12500	12.9							240,000	680	225,000	635	210,000	590	195,000	555
345	13000	13.9							254,000	780	242,000	740	228,000	695	213,000	655
358	13500	15.0									259,000	855	245,000	805	232,000	765
372	14000	16.2									274,000	975	261,000	925	249,000	880
384	14500	17.4											278,000	1050	267,000	1010
399	15000	18.6											294,000	1190	284,000	1160
410	15500	19.8													299,000	1290
424	16000	21.1													315,000	1400

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
292	11000	9.98	97,800	230												
305	11500	10.9	130,000	320	100,000	260										
319	12000	11.9	154,000	410	133,000	355	103,000	290								
332	12500	12.9	177,000	505	158,000	455	139,000	405	109,000	330						
345	13000	13.9	198,000	605	181,000	560	164,000	510	142,000	450	114,000	375				
358	13500	15.0	216,000	710	202,000	665	185,000	615	168,000	565	150,000	505				
372	14000	16.2	235,000	825	221,000	780	207,000	730	192,000	690	175,000	630				
384	14500	17.4	254,000	965	240,000	900	227,000	855	213,000	815	199,000	765				
399	15000	18.6	272,000	1110	259,000	1050	245,000	990	232,000	945	218,000	890				
410	15500	19.8	288,000	1240	276,000	1190	264,000	1140	252,000	1090	238,000	1030				
424	16000	21.1	304,000	1410	294,000	1360	282,000	1300	270,000	1240	257,000	1180				
437	16500	22.5	321,000	1580	310,000	1520	299,000	1480	288,000	1410	276,000	1340				
450	17000	23.8	336,000	1760	326,000	1690	316,000	1630	306,000	1590	294,000	1530				
464	17500	25.3			342,000	1890	332,000	1850	322,000	1770	313,000	1720				
477	18000	26.7					348,000	2040	340,000	1965	329,000	1920				
490	18500	28.2					364,000	2250	355,000	2160	344,000	2100				
503	19000	29.8							372,000	2420	362,000	2390				
517	19500	31.4									378,000	2600				
530	20000	33									391,000	2850				

Double Inlet

4' Steel Plate Fan—Design 2

Double Widt

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	
			Static Pressure 1/8" Water .072 ozs. per sq. inch		Static Pressure 1/4" Water .145 ozs. per sq. inch		Static Pressure 3/8" Water .217 ozs. per sq. inch		Static Pressure 1/2" Water .239 ozs. per sq. inch		Static Pressure 5/8" Water .351 ozs. per sq. inch		Static Pressure 3/4" Water .434 ozs. per sq. inch		Static Pres 7/8" Wate .506 ozs. sq. inc	
111	1400	0 155	3,480	0 12												
127	1600	0 202	4,760	0 20												
143	1800	0 256	5,900	0 31	3,360	0 20										
159	2000	0 316	6,840	0 47	5,080	0 35										
175	2200	0 383	7,820	0 62	6,400	0 52	4,000	0 37								
191	2400	0 456	8,760	0 83	7,560	0 72	5,860	0 59								
207	2600	0 534	9,600	1 10	8,600	0 97	7,220	0 83	5,320	0 66						
223	2800	0 620	10,500	1 30	9,640	1 25	8,400	1 10	6,960	0.94	4,700	0 71				
239	3000	0 712	11,500	1 70			9,560	1.45	8,380	1 25	6,780	1 10	3,760	0 71		
255	3200	0.810	12,300	2 10			10,600	1 8	9,540	1 65	8,280	1 45	6,640	1 25		
271	3400	0 914	13,200	2 6			11,700	2 3	10,700	2 1	9,520	1 85	8,300	1 7	6,640	1
287	3600	1 02	14,100	3 1					11,800	2 5	10,700	2 3	9,600	2 1	8,460	1
303	3800	1 11	15,000	3 6					12,800	3 1	11,900	2 9	10,900	2 7	9,920	2
319	4000	1 27	15,800	4 2							13,000	3 5	12,200	3 3	11,200	3
335	4200	1 39	16,700	4 9							14,000	4 2	13,300	4 0	12,400	3
351	4400	1 53	17,600	5 7							15,100	4 9	14,400	4 6	13,600	4
367	4600	1 67	18,400	6 5									15,400	5 5	14,700	5
382	4800	1 82	19,300	7 4									16,400	6 4	15,700	6
398	5000	1 98	20,200	8 4											16,800	7

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Press 3" Water 1.73 ozs. pe sq. inch	
287	3600	1 02	6,700	1 65												
303	3800	1 14	8,600	2 2												
319	4000	1 27	10,100	2 8	7,200	2 2										
334	4200	1 39	11,500	3 4	9,200	2 9										
350	4400	1 53	12,700	4 1	10,800	3 6	8,080	2 9								
366	4600	1 67	14,000	4 9	12,200	4 4	10,200	3.9	6,080	2 6						
382	4800	1 82	15,000	5 8	13,500	5 2	11,700	4 7	9,280	4 0						
398	5000	1 98	16,300	6 8	14,400	6 1	13,100	5 6	11,200	5.0	8,320	4 0				
417	5250	2 18	17,500	8 1	16,200	7 5	14,700	6 8	13,100	6 3	11,200	5 6				
437	5500	2 39	18,800	9 6	17,600	8 9	16,300	8 2	14,800	7 6	13,300	7 0	7,240	5 0		
457	5750	2 61			18,900	10 5	17,600	9 7	16,400	8 8	15,100	8 6	11,200	6 8		
477	6000	2 85			20,200	12	19,100	11 5	17,800	10 5	16,700	10 0	13,500	8 7	7,540	5
497	6250	3 09					20,400	13 5	19,300	12 5	18,200	12 0	15,500	10 5	11,800	8
517	6500	3 33					21,800	15 5	20,800	14 5	19,800	14 0	17,100	12 5	14,300	11
537	6750	3 60					23,000	18 0	22,200	17 0	21,000	16 0	18,900	14 5	16,400	13
557	7000	3 88							23,400	19 5	22,400	18 5	20,100	17	18,100	15
575	7250	4 15							21,800	22	23,800	21	21,800	19	19,800	18
597	7500	4 45									25,200	24	23,200	22	21,400	20
615	7750	4 75									26,400	27	24,600	25	22,800	23
637	8000	5 06											26,000	28	24,400	27
655	8250	5 38											27,400	31	25,600	29
677	8500	5 71											28,600	35	27,000	33
695	8750	6 05											30,000	38	28,400	39
717	9000	6 41													29,600	40

Double Inlet 4' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
517	6500	3.33	8,180	7.2												
537	6750	3.60	12,700	11.0												
557	7000	3.88	15,200	13.5	10,400	10.0										
575	7250	4.15	17,200	16.0	14,100	14.0										
597	7500	4.45	19,000	18.5	16,500	16.5										
615	7750	4.75	20,600	21	18,500	19.5	9,540	12.0								
637	8000	5.06	22,400	24	20,400	23	14,500	17.5								
655	8250	5.37	23,800	27	22,000	26	17,300	21								
677	8500	5.71	25,400	31	23,600	29	19,400	25	10,700	16						
695	8750	6.05	26,800	34	25,200	33	21,400	29	16,000	23						
717	9000	6.41	28,200	38	26,800	37	23,200	33	18,800	28						
756	9500	7.14	31,000	47	29,400	44	26,400	41	22,800	36	17,600	30				
796	10000	7.91	33,600	57	32,200	54	29,600	50	26,400	45	22,600	40	16,600	32		
837	10500	8.72			35,000	66	32,400	60	29,600	56	26,400	50	22,400	45	15,500	34
877	11000	9.57			37,800	76	35,000	70	32,600	66	29,800	62	26,400	56	22,400	50
917	11500	10.5					37,800	84	35,400	80	33,000	74	30,000	68	26,800	62
956	12000	11.4					40,400	98	38,000	92	36,000	86	33,400	82	30,600	76
996	12500	12.4							40,800	110	38,800	100	36,600	96	34,200	90
1035	13000	13.4							43,400	125	41,600	115	39,400	110	37,200	105
1075	13500	14.4							46,200	145	44,200	135	42,200	130	40,000	125
1115	14000	15.5									47,000	155	45,000	150	43,000	140

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
877	11000	9.57	14,500	32												
917	11500	10.5	22,600	56	14,500	40										
956	12000	11.4	27,200	70	23,000	62	14,800	44								
996	12500	12.4	31,200	84	28,000	78	23,600	70	15,400	50						
1035	13000	13.4	34,600	100	31,800	94	28,600	86	24,400	78	16,600	58				
1075	13500	14.4	37,800	115	35,400	110	32,600	105	29,400	96	25,400	88	18,500	68		
1115	14000	15.5	40,800	135	38,600	130	36,200	125	33,600	115	30,400	110	26,400	98		

Double Inlet **Double Width**

4½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
99	1400	0.155	4,360	0.15												
113	1600	0.202	6,000	0.26												
127	1800	0.256	7,380	0.39	4,220	0.26										
141	2000	0.316	8,640	0.59	6,360	0.44										
155	2200	0.383	9,880	0.79	8,000	0.65	5,080	0.46								
169	2400	0.456	11,100	1.05	9,460	0.91	7,140	0.74								
183	2600	0.534	12,100	1.35	10,800	1.2	9,040	1.05	6,660	0.82						
197	2800	0.620	13,300	1.70	12,100	1.6	10,500	1.4	8,740	1.2	5,880	0.89				
211	3000	0.712	14,500	2.2			12,000	1.8	10,500	1.6	8,500	1.35	4,720	0.89		
225	3200	0.810	15,500	2.7			13,300	2.3	11,900	2.1	10,400	1.85	8,300	1.55		
240	3400	0.914	16,700	3.3			14,600	2.9	13,400	2.6	11,900	2.3	10,400	2.1	8,300	1.8
254	3600	1.02	17,800	3.9					14,800	3.1	13,400	2.9	12,100	2.7	10,600	2.4
268	3800	1.14	18,900	4.6					16,100	3.9	15,000	3.6	13,700	3.4	12,400	3.4
283	4000	1.27	19,900	5.3							16,300	4.4	15,200	4.1	14,000	3.8
297	4200	1.39	21,000	6.2							17,600	5.2	16,600	5.0	15,600	4.6
311	4400	1.53	22,200	7.2							19,000	6.2	18,000	5.8	17,000	5.5
325	4600	1.67	23,200	8.2									19,300	6.9	18,400	6.5
339	4800	1.82	24,400	9.4									20,600	8	19,700	7.6
353	5000	1.98	25,700	10.5											21,200	9

P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq.inch		Static Pressure 1¼" Water .723 per ozs. sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pessure 3" Water 1.73 ozs. per sq. inch	
54	3600	1.02	8,400	2.1												
68	3800	1.14	10,800	2.8												
83	4000	1.27	12,700	3.5	8,980	2.7										
97	4200	1.39	14,200	4.3	11,600	3.6										
11	4400	1.53	15,900	5.2	13,600	4.6	10,100	3.7								
25	4600	1.67	17,500	6.2	15,300	5.5	12,700	4.8	7,600	3.3						
39	4800	1.82	18,900	7.2	16,900	6.6	14,700	5.9	11,600	5.0						
54	5000	1.98	20,200	8.4	18,100	7.6	16,400	7.0	14,100	6.3	10,400	5.0				
72	5250	2.18	21,800	10	20,200	9.2	18,400	8.6	16,400	7.9	13,900	7.0				
90	5500	2.39	23,600	12	22,000	11.0	20,400	10.5	18,600	9.6	16,600	8.8	9,080	6.3		
07	5750	2.61			23,600	13.0	22,200	12.0	20,600	11.5	18,800	11.0	14,000	8.6		
25	6000	2.85			25,400	15.5	24,000	14.5	22,200	13.5	20,800	12.5	17,000	11.0	9,240	7.0
42	6250	3.00					25,600	17.0	24,200	16.0	22,800	15.0	19,400	13.0	14,800	11.0
60	6500	3.33					27,200	19.5	26,000	18.5	24,600	17.5	21,600	15.5	17,900	13.5
77	6750	3.60					28,800	22	27,800	21	26,400	20	23,600	18	20,400	16
95	7000	3.88							29,400	24	28,200	23	25,600	21	22,600	19
12	7250	4.15							31,000	28	29,800	26	27,400	24	24,800	22
32	7500	4.45									31,400	30	29,200	27	26,800	25
48	7750	4.75									33,200	34	31,000	31	28,600	29
66	8000	5.06											32,600	35	30,600	32
83	8250	5.38											34,200	39	32,200	36
01	8500	5.71											36,000	44	33,800	41
18	8750	6.05											37,600	48	35,600	46
36	9000	6.41													37,200	50

Double Inlet 4½' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
460	6500	3.33	10,300	9.0												
477	6750	3.60	15,900	13.5												
495	7000	3.88	19,000	17	12,700	12.5										
512	7250	4.15	21,600	20	17,400	17										
532	7500	4.45	24,000	23	20,600	21										
548	7750	4.75	26,000	27	23,200	25	12,100	15								
566	8000	5.06	28,000	30	25,400	28	18,000	22								
583	8250	5.37	30,000	34	27,600	32	21,400	27								
601	8500	5.71	32,000	39	28,000	36	24,200	31	13,200	20						
618	8750	6.05	33,600	43	31,400	40	26,800	36	19,200	29						
636	9000	6.41	35,600	48	33,400	46	28,800	40	22,800	34						
672	9500	7.14	38,800	60	36,800	56	33,200	50	28,600	45	22,000	37				
708	10000	7.91	42,200	72	40,400	68	36,800	62	31,000	56	28,200	50	20,600	40		
743	10500	8.72			43,800	82	40,800	76	37,200	70	33,200	64	28,200	56	19,100	42
779	11000	9.57			47,400	96	44,200	88	40,800	82	37,400	78	33,400	70	28,000	62
814	11500	10.5					47,400	105	44,200	100	41,200	92	37,800	86	33,600	78
850	12000	11.4					50,800	125	47,800	115	45,000	110	42,000	105	38,200	96
885	12500	12.4							51,200	135	48,600	130	45,600	120	42,600	110
920	13000	13.4							54,600	155	52,200	150	49,400	140	46,400	130
955	13500	14.4							58,000	180	55,400	170	52,800	160	50,200	150
990	14000	15.5									59,000	195	56,400	185	53,800	175

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
779	11000	9.57	18,200	45												
814	11500	10.5	28,200	70	17,900	49										
850	12000	11.4	34,200	88	28,600	78	18,400	56								
885	12500	12.4	38,800	105	35,000	98	29,600	86	10,300	62						
920	13000	13.4	43,600	125	40,000	115	36,000	110	30,800	98	20,800	72				
955	13500	14.4	47,200	150	44,400	140	41,000	130	37,000	120	31,800	110	23,200	86		
990	14000	15.5	51,200	170	48,400	160	45,400	155	42,000	145	38,200	135	33,200	120		

Double Inlet **Double Width**

5' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
89	1400	0.155	5,380	0.185												
102	1600	0.202	7,380	0.32												
115	1800	0.256	9,120	0.48	5,180	0.32										
127	2000	0.316	10,700	0.73	7,860	0.54										
140	2200	0.383	12,200	0.97	9,880	0.80	6,260	0.57								
153	2400	0.456	13,600	1.3	11,700	1.10	9,040	0.91								
166	2600	0.534	15,000	1.7	13,300	1.50	11,100	1.30	8,240	1.00						
178	2800	0.620	16,400	2.1	14,900	1.95	13,000	1.7	10,800	1.45	7,260	1.1				
191	3000	0.712	17,900	2.7			14,700	2.2	12,900	1.95	10,500	1.7	5,820	1.1		
204	3200	0.810	19,200	3.3			16,300	2.8	14,700	2.5	12,800	2.3	10,200	1.8		
217	3400	0.914	20,000	4.0			18,000	3.5	16,600	3.2	14,700	2.9	12,800	2.6	10,300	2.2
229	3600	1.02	22,000	4.8					18,200	3.8	16,500	3.6	14,800	3.3	13,100	3.0
242	3800	1.14	23,600	5.6					19,800	4.8	18,400	4.4	16,800	4.1	15,300	3.8
255	4000	1.27	24,600	6.6							20,000	5.4	18,800	5.0	17,300	4.7
268	4200	1.39	26,000	7.6							21,800	6.4	20,000	6.2	19,200	5.6
280	4400	1.53	27,400	8.8							23,400	7.6	22,200	7.2	21,000	6.8
293	4600	1.67	28,800	10.0									23,800	8.5	22,800	8.0
306	4800	1.82	30,000	11.5									25,400	9.9	24,400	9.4
318	5000	1.98	31,400	13											26,000	11

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.46 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
229	3600	1.02	10,400	2.5												
242	3800	1.14	13,300	3.4												
255	4000	1.27	15,700	4.4	11,100	3.4										
268	4200	1.39	17,800	5.3	14,200	4.5										
280	4400	1.53	19,700	6.4	16,700	5.6	12,500	4.6								
293	4600	1.67	21,600	7.8	18,800	6.8	15,700	6.0	9,400	4.1						
306	4800	1.82	23,200	8.9	20,800	8.1	18,100	7.3	14,300	6.2						
318	5000	1.98	25,000	10.5	22,400	9.4	20,200	8.7	17,300	7.7	12,800	6.2				
334	5250	2.18	27,000	12.5	25,000	11.5	22,800	10.5	20,200	9.7	17,200	8.6				
350	5500	2.39	29,000	15	27,200	14.0	25,200	13.0	23,000	12.0	20,400	11.0	11,200	8.0		
366	5750	2.61			29,600	16.0	27,200	15	25,400	14.0	23,200	13.0	17,300	10.5		
382	6000	2.85			31,200	18.5	29,600	17	27,400	16.5	25,600	15.5	21,000	13.5	11,400	8.6
398	6250	3.09					31,600	21	30,000	19.5	28,100	18.5	24,000	16	18,200	13.5
414	6500	3.33					33,600	24	32,200	23	30,400	21	26,600	19	22,000	16.5
430	6750	3.60					35,600	28	34,200	26	32,600	25	29,200	23	25,200	20
446	7000	3.88							36,200	30	34,800	28	31,600	26	28,000	24
460	7250	4.15							38,200	34	36,600	32	33,800	30	30,600	27
477	7500	4.45									38,800	37	36,000	33	33,000	31
493	7750	4.75									40,800	42	38,200	38	35,200	35
510	8000	5.06											40,200	44	37,600	40
525	8250	5.38											42,400	48	39,800	45
541	8500	5.71											44,400	54	41,600	50
556	8750	6.05											46,400	60	44,000	56
574	9000	6.41													46,000	62

Double Inlet # 5' Steel Plate Fan—Design 2—Cont'd **Double Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
414	6500	3.33	12,600	11												
430	6750	3.60	19,700	17												
446	7000	3.88	23,400	21	15,700	15.5										
460	7250	4.15	26,600	25	21,400	21										
477	7500	4.45	29,400	29	25,400	26										
493	7750	4.75	32,000	31	28,600	30	14,900	18.5								
510	8000	5.06	34,600	38	31,400	35	22,200	27								
525	8250	5.37	37,000	42	34,200	40	26,400	31								
541	8500	5.71	39,400	48	36,400	45	29,800	38	16,300	25						
556	8750	6.05	41,600	52	38,800	50	31,000	44	23,800	35						
574	9000	6.41	43,800	60	40,400	56	35,600	50	28,200	42						
605	9500	7.14	48,000	74	45,400	68	40,800	62	35,200	56	27,000	46				
637	10000	7.91	52,000	88	49,800	84	45,600	76	40,800	70	34,600	62	25,400	50		
670	10500	8.72			54,200	100	50,200	94	45,800	86	40,800	78	34,600	70	23,600	52
701	11000	9.57			58,400	120	54,400	110	50,400	105	46,000	96	41,000	88	34,600	76
733	11500	10.5					58,400	130	54,600	125	50,800	110	46,600	105	41,400	90
765	12000	11.4					62,600	150	58,800	145	55,600	130	51,800	125	47,200	115
797	12500	12.4							63,200	165	60,000	155	56,200	150	52,400	140
828	13000	13.4							67,200	190	64,200	180	61,000	170	57,400	165
860	13500	14.4							71,600	220	68,400	210	65,200	195	62,000	190
892	14000	15.5									72,600	240	69,600	230	66,400	220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch	
701	11000	9.57	22,400	56												
733	11500	10.5	35,800	86	22,000	60										
765	12000	11.4	42,200	110	35,400	96	22,800	68								
797	12500	12.4	48,000	130	43,200	120	36,600	110	23,800	78						
828	13000	13.4	53,200	155	49,200	145	44,400	135	38,000	120	25,800	90				
860	13500	14.4	58,400	180	54,600	170	50,600	160	45,000	150	39,400	135	28,600	105		
892	14000	15.5	63,200	210	59,600	200	56,000	190	52,000	170	47,000	170	41,000	150		

Double Inlet

5½' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
81	1400	0.155	6,520	0.22												
93	1600	0.202	8,920	0.38												
104	1800	0.256	11,000	0.58	6,280	0.38										
116	2000	0.316	12,900	0.88	9,500	0.66										
127	2200	0.383	14,700	1.20	11,900	0.97	7,600	0.69								
139	2400	0.456	16,500	1.6	14,100	1.35	10,900	1.10								
150	2600	0.534	18,100	2.0	16,100	1.8	13,500	1.55	9,960	1.25						
162	2800	0.620	19,900	2.5	18,000	2.4	15,700	2.1	13,000	1.75	8,800	1.35				
174	3000	0.712	21,800	3.3			17,900	2.7	15,700	2.4	12,700	2.0	7,040	1.3		
185	3200	0.810	23,200	2.0			19,800	3.4	17,800	3.1	15,500	2.7	12,400	2.3		
197	3400	0.914	25,000	4.9			21,800	4.3	20,000	3.9	17,800	3.5	15,500	3.0	12,400	2.7
208	3600	1.02	26,600	5.9					22,000	4.6	20,000	4.4	18,000	4.0	15,800	3.6
220	3800	1.14	28,400	6.8					24,000	5.9	22,400	5.4	20,400	5.0	18,600	4.6
232	4000	1.27	29,800	8.0							24,400	6.6	22,800	6.1	21,000	5.7
243	4200	1.39	31,400	9.2							26,400	7.8	24,800	7.4	23,200	6.8
255	4400	1.53	33,200	11							28,400	9.2	26,800	8.7	25,400	8.2
266	4600	1.67	34,800	12									28,800	10.5	27,600	9.7
278	4800	1.82	36,400	14									30,600	12	29,600	11.5
289	5000	1.98	38,000	16											31,600	13.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.46 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
208	3600	1.02	12,500	3.1												
220	3800	1.14	16,100	4.1												
232	4000	1.27	19,000	5.3	13,400	4.1										
243	4200	1.39	21,600	6.5	17,300	5.4										
255	4400	1.53	23,800	7.8	20,200	6.8	15,100	5.5								
266	4600	1.67	26,200	9.3	22,800	8.2	19,000	7.2	11,400	5.0						
278	4800	1.82	28,200	11.0	25,000	9.8	22,000	8.8	17,400	7.4	•					
290	5000	1.98	30,200	12.5	27,000	11.5	24,600	10.5	21,000	9.4	15,500	7.5				
304	5250	2.18	32,600	15.5	30,200	14.0	27,000	13.0	24,600	12.0	20,800	10.5				
318	5500	2.39	35,000	18	33,000	16.5	30,400	15.5	28,000	14.5	24,800	13	13,600	9.4		
332	5750	2.61			35,000	19.5	33,000	18	30,800	17.0	28,000	16	21,000	13		
348	6000	2.85			38,000	23.0	36,000	22	33,200	20	31,000	19	25,400	16	13,800	10.5
361	6250	3.00					38,000	25	36,200	24	34,000	22	29,000	20	22,200	16
376	6500	3.33					41,000	29	39,000	27	36,800	26	32,200	23	26,800	20
390	6750	3.60					43,000	33	41,400	32	39,400	30	35,400	27	30,600	24
405	7000	3.88							43,800	36	42,000	35	38,200	31	33,800	29
419	7250	4.15							46,200	41	44,400	39	41,000	36	37,000	33
435	7500	4.45									47,000	45	43,600	40	40,000	38
448	7750	4.75									49,400	50	46,200	46	42,800	43
464	8000	5.06											48,600	52	45,600	48
479	8250	5.38											51,200	58	48,000	54
491	8500	5.71											53,800	66	50,400	62
506	8750	6.05											56,200	72	53,200	68
520	9000	6.41													55,600	76

Double Inlet 5½' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
376	6500	3.33	15,300	13.5												
390	6750	3.60	23,800	20												
405	7000	3.88	28,400	25	19,000	18.5										
419	7250	4.15	32,100	30	26,000	25										
435	7500	4.45	35,600	35	30,800	31										
440	7750	4.75	38,800	40	34,600	37	18,000	23								
464	8000	5.06	42,000	45	38,000	42	27,000	33								
477	8250	5.37	44,800	52	41,200	48	32,000	40								
491	8500	5.71	47,000	58	44,200	54	36,200	46	19,800	30						
506	8750	6.05	50,200	64	47,000	60	40,000	54	28,800	42						
520	9000	6.41	53,000	72	49,800	68	43,200	60	31,200	52						
550	9500	7.14	58,000	88	57,000	84	49,400	76	42,600	68	32,800	56				
578	10000	7.91	63,000	110	60,400	105	55,200	92	49,200	84	42,000	74	30,000	60		
609	10500	8.72			65,600	125	60,800	110	55,400	105	49,400	94	42,000	84	28,600	62
637	11000	9.57			70,800	145	65,800	130	61,000	125	55,800	115	49,600	105	41,800	92
666	11500	10.5					70,800	155	66,200	150	61,600	135	56,400	130	50,200	115
695	12000	11.4					75,600	185	71,200	170	67,200	160	62,800	150	57,000	145
724	12500	12.4							76,400	200	72,400	190	68,000	180	63,400	170
754	13000	13.4							81,400	230	77,800	220	73,800	210	69,400	200
781	13500	14.4							86,600	270	82,800	250	79,000	240	75,000	230
811	14000	15.5									88,000	290	84,200	280	80,400	260

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
637	11000	9.57	27,200	72												
666	11500	10.5	42,200	105	26,800	74										
695	12000	11.4	51,000	130	42,800	115	27,600	84								
724	12500	12.4	58,000	160	52,200	145	44,200	130	28,800	94						
754	13000	13.4	64,400	190	59,600	175	53,800	165	46,000	145	31,200	110				
781	13500	14.4	70,600	220	66,200	210	61,200	195	55,200	180	47,600	165	35,600	130		
811	14000	15.5	76,600	250	72,200	240	68,000	230	62,800	220	57,200	200	49,800	180		

Double Inlet

6' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
74	1400	0.155	7,760	0.26												
85	1600	0.202	10,600	0.46												
95	1800	0.256	13,100	0.69	6,500	0.16										
106	2000	0.316	15,400	1.05	11,400	0.78										
117	2200	0.383	17,600	1.40	14,300	1.15	9,040	0.82								
127	2400	0.456	19,700	1.9	16,900	1.6	13,100	1.30								
138	2600	0.534	21,600	2.4	19,200	2.2	16,100	1.85	11,900	1.5						
149	2800	0.620	23,800	3.0	22,000	2.8	18,800	2.5	15,600	2.1	10,500	1.6				
159	3000	0.712	25,800	3.9			21,400	3.2	18,700	2.8	15,100	2.4	8,400	1.6		
170	3200	0.810	27,600	4.7			23,600	4.1	21,400	3.7	18,500	3.3	14,800	2.8		
180	3400	0.914	29,800	5.8			26,000	5.1	24,000	4.6	21,200	4.1	18,600	3.7	14,800	3.2
191	3600	1.02	31,600	6.8					26,400	5.5	23,800	5.2	21,400	4.8	18,900	4.3
202	3800	1.14	33,900	8.0					28,600	7.0	26,800	6.4	24,400	6.0	22,200	5.5
212	4000	1.27	35,400	9.5							29,000	7.8	27,200	7.3	25,000	6.8
223	4200	1.39	36,400	11							31,400	9.4	29,600	8.9	27,800	8.1
233	4400	1.53	39,400	13							33,800	11.0	32,000	10.5	30,400	9.8
244	4600	1.67	41,400	15									34,100	12.5	32,800	11.5
255	4800	1.82	43,400	17									36,600	14.0	35,200	13.5
266	5000	1.98	45,200	19											37,600	16.0

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
191	3600	1.02	14,900	3.6												
202	3800	1.14	19,200	5.9												
212	4000	1.27	22,600	6.3	16,000	4.9										
223	4200	1.39	25,600	7.7	20,600	6.5										
233	4400	1.53	28,400	9.2	24,200	8.1	18,000	6.6								
244	4600	1.67	31,000	11	27,200	9.8	22,600	8.6	13,600	5.9						
255	4800	1.82	33,600	13	30,000	11.5	26,200	10.5	20,600	8.9						
266	5000	1.98	36,000	15	32,200	13.5	29,200	12.5	25,000	11	18,500	9.0				
278	5250	2.18	39,000	18	36,000	16.5	32,800	15.0	29,200	14	21,800	12.5				
292	5500	2.39	41,800	21	39,200	20	36,400	18.5	31,000	17	29,600	15.5	16,200	11.0		
305	5750	2.61			42,000	23	39,400	22	36,600	22	33,400	19	25,000	15.0		
318	6000	2.85			45,000	27	42,600	26	39,600	24	37,000	23	30,200	19.5	16,400	12.5
332	6250	3.09					45,600	30	43,200	28	40,600	27	34,600	23	26,400	19.5
345	6500	3.33					48,400	35	46,200	33	43,600	31	38,200	28	31,800	24
358	6750	3.60					51,200	40	49,200	38	47,000	34	42,000	32	36,400	29
372	7000	3.88							52,000	43	50,200	41	45,600	37	40,200	34
384	7250	4.15							55,000	49	52,800	46	48,800	43	44,000	40
398	7500	4.45									56,000	54	51,800	48	47,600	45
410	7750	4.75									59,000	60	55,000	56	50,800	50
425	8000	5.06											58,000	62	54,200	58
437	8250	5.38											61,000	70	57,200	64
451	8500	5.71											64,000	78	60,000	74
464	8750	6.05											66,800	86	63,400	82
478	9000	6.41													66,400	90

Double Inlet 6ꞌ Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
345	6500	3 33	18,300	16												
358	6750	3 60	28,400	24												
372	7000	3 88	33,800	30	22,600	22										
384	7250	4 15	38,400	36	31,000	30										
398	7500	4 45	42,400	42	36,600	37										
410	7750	4 75	46,200	48	41,200	44	21,400	27								
425	8000	5 06	50,000	54	45,200	50	32,200	39								
437	8250	5 37	53,200	60	49,200	58	38,000	47								
451	8500	5 71	56,800	68	52,600	64	43,000	56	23,600	36						
464	8750	6 05	59,800	76	56,000	72	47,600	64	34,200	50						
478	9000	6 41	63,200	86	59,400	80	51,400	72	40,600	62						
504	9500	7 14	69,200	105	65,400	100	58,800	90	50,800	80	39,000	66				
530	10000	7 91	75,200	125	72,000	120	65,600	110	58,600	100	50,000	90	36,600	70		
558	10500	8 72			78,000	145	72,400	135	66,000	125	58,800	110	50,000	100	34,000	75
584	11000	9 57			84,200	170	78,400	160	72,800	150	66,400	135	59,600	125	49,800	110
611	11500	10 5					81,400	185	78,800	175	73,400	165	67,200	150	59,800	140
637	12000	11 4					90,200	220	85,000	210	80,000	190	74,600	180	68,000	170
663	12500	12 4							91,000	240	86,400	220	81,000	210	75,600	200
690	13000	13.4							97,000	270	92,600	260	87,800	250	82,600	240
717	13500	14 4							103,000	320	98,600	300	94,200	280	89,400	270
743	14000	15 5									105,000	350	100,000	330	95,000	310

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.09 ozs per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
584	11000	9 57	32,400	80												
611	11500	10 5	50,400	125	31,800	88										
637	12000	11 4	60,800	155	51,000	135	32,800	100								
663	12500	12 4	69,200	190	62,200	170	52,600	150	34,200	110						
690	13000	13.4	77,000	220	71,000	210	64,000	195	54,800	170	37,000	130				
717	13500	14 4	84,000	260	78,800	250	72,800	230	65,800	220	56,800	195	41,000	150		
743	14000	15 5	91,000	300	86,000	290	81,000	270	74,800	260	68,000	240	59,200	220		

Double Inlet **Double Width**

6½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 4.34 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
69	1400	0.155	9,080	0.31												
78	1600	0.202	12,400	0.53												
88	1800	0.256	15,400	0.81	8,760	0.53										
98	2000	0.316	18,000	1.20	13,200	0.92										
108	2200	0.383	20,600	1.65	16,600	1.35	10,600	0.97								
118	2400	0.456	23,000	2.2	19,700	1.9	15,300	1.5								
127	2600	0.534	25,200	2.8	22,400	2.5	18,800	2.2	13,900	1.7						
137	2800	0.620	27,600	3.5	25,200	3.3	22,000	2.9	18,200	2.5	12,200	1.85				
147	3000	0.712	30,000	4.6			24,800	3.7	21,800	3.3	17,700	2.8	9,800	1.85		
157	3200	0.810	32,100	5.5			27,600	4.8	25,000	4.3	21,600	3.8	17,300	3.2		
167	3400	0.914	34,800	6.8			30,400	5.9	28,000	5.1	21,800	4.8	21,600	4.4	17,300	3.7
176	3600	1.02	37,000	8.0					30,800	6.4	27,800	6.0	25,000	5.6	22,000	5.0
186	3800	1.14	39,200	9.4					33,100	8.1	31,200	7.5	28,400	7.0	25,800	6.4
196	4000	1.27	41,400	11.0							33,800	9.2	31,800	8.5	29,200	7.9
206	4200	1.39	43,600	13.0							36,600	11	34,600	10.5	32,400	9.5
216	4400	1.53	46,200	15.0							39,400	13	37,400	12	35,400	11.5
225	4600	1.67	48,200	17.0									40,200	14	38,200	13.5
235	4800	1.82	50,600	19.5									42,800	17	41,000	16
245	5000	1.98	52,800	22											43,800	19

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½' Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
176	3600	1.02	17,400	4.3												
186	3800	1.14	22,400	5.8												
196	4000	1.27	26,600	7.3	18,700	5.7										
206	4200	1.39	30,000	9.0	24,000	7.6										
216	4400	1.53	33,200	11.0	28,200	9.5	21,000	8.0								
225	4600	1.67	36,400	13.0	31,800	11.5	26,400	10.0	15,800	7.0						
235	4800	1.82	39,200	15.0	35,000	13.5	30,400	12.0	24,200	10.5						
245	5000	1.98	42,000	17.5	37,600	16	34,000	14.5	29,200	13.0	21,600	10.5				
257	5250	2.18	45,400	21	42,000	19	38,400	18	34,200	16.5	29,000	11.5				
269	5500	2.39	48,800	25	45,800	23	42,400	21	38,600	20	34,400	18	18,800	13		
282	5750	2.61			49,200	27	46,000	25	42,800	24	39,000	22	29,200	18		
294	6000	2.85			52,600	32	49,800	30	46,200	28	43,200	26	35,200	23	19,200	14.5
306	6250	3.09					53,200	35	50,400	33	47,400	31	40,400	27	30,800	23
318	6500	3.33					56,600	40	54,000	38	51,000	36	44,600	32	37,200	28
330	6750	3.60					60,000	46	57,600	44	54,800	41	49,200	38	42,400	34
340	7000	3.88							61,000	50	58,600	48	53,200	44	47,000	40
354	7250	4.15							64,400	58	61,800	54	57,000	50	51,400	46
368	7500	4.45									65,400	62	60,600	56	55,400	52
379	7750	4.75									68,800	70	64,400	64	59,400	60
392	8000	5.06											67,600	74	63,400	68
403	8250	5.38											71,200	82	66,800	76
417	8500	5.71											74,800	96	70,000	86
428	8750	6.05											78,000	100	74,000	96
441	9000	6.41													77,400	105

Double Inlet

6½' Steel Plate Fan—Design 2—Cont'd

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3¼″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.04 ozs. per sq. inch		Static Pressure 8″ Water 4.62 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
318	6500	3.33	21,200	18.5												
330	6750	3.60	33,200	28												
343	7000	3.88	39,600	35	26,400	26										
354	7250	4.15	45,000	42	36,200	35										
368	7500	4.45	49,600	48	42,800	43										
379	7750	4.75	54,000	56	48,200	52	25,000	31								
392	8000	5.06	58,400	64	52,800	58	37,600	46								
403	8250	5.37	62,200	72	57,400	68	44,400	56								
417	8500	5.71	66,400	80	61,400	76	50,200	64	27,400	42						
428	8750	6.05	70,000	90	65,400	84	55,600	74	40,000	60						
441	9000	6.41	73,800	100	79,100	94	60,000	81	47,400	72						
465	9500	7.11	80,800	125	76,600	115	68,800	105	59,200	94	45,600	78				
490	10000	7.91	87,600	150	84,000	140	76,800	130	68,400	120	58,400	105	42,600	84		
515	10500	8.72			91,200	170	84,600	155	77,000	145	68,800	130	58,400	115	39,600	88
539	11000	9.57			98,400	200	91,400	185	85,000	170	77,600	160	69,200	150	58,000	130
563	11500	10.5					98,400	220	92,000	210	85,600	190	78,600	180	69,800	165
588	12000	11.1					105,400	260	99,200	240	93,400	220	87,200	210	79,400	200
613	12500	12.4							106,000	280	101,000	260	94,600	250	88,400	240
637	13000	13.4							113,000	320	108,000	310	103,000	290	96,000	280
662	13500	14.4							120,000	390	115,000	350	110,000	330	104,000	320
687	14000	15.5									122,000	400	117,000	380	112,000	360

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
539	11000	9.57	37,800	95												
563	11500	10.5	58,800	145	37,200	105										
588	12000	11.4	71,000	180	59,600	160	38,200	115								
613	12500	12.4	80,800	220	72,600	200	61,400	180	40,000	130						
637	13000	13.1	89,800	260	83,000	240	74,800	230	63,800	200	43,200	150				
662	13500	14.4	98,200	300	92,000	290	85,000	270	76,800	250	66,200	230	48,200	180		
687	14000	15.5	106,000	350	100,000	340	94,400	320	87,400	300	79,400	280	69,000	250		

Double Inlet **Double Width**

7' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
64	1400	0.155	10,600	0.36												
73	1600	0.202	14,500	0.62												
82	1800	0.256	17,900	0.94	10,200	0.62										
91	2000	0.316	20,800	1.40	15,400	1.05										
100	2200	0.383	23,800	1.90	19,300	1.6	12,300	1.1								
109	2400	0.456	26,800	2.50	23,000	2.2	17,700	1.8								
118	2600	0.534	29,400	3.30	26,000	2.9	21,800	2.5	16,100	2.0						
127	2800	0.620	32,200	4.1	29,200	3.8	25,400	3.3	21,200	2.9	14,200	2.2				
136	3000	0.712	35,000	5.3			29,000	4.4	25,400	3.8	20,600	3.3	11,400	2.1		
145	3200	0.810	37,600	6.4			32,200	5.5	29,000	5.0	25,000	4.4	20,200	3.7		
155	3400	0.911	40,400	8.0			35,400	6.9	32,400	6.3	28,800	5.6	25,200	5.1	20,200	4.3
164	3600	1.02	43,000	9.0					35,800	7.5	33,800	7.0	29,200	6.5	25,600	5.8
173	3800	1.14	45,800	11.0					38,800	9.5	36,200	8.7	33,000	8.1	30,000	7.5
182	4000	1.27	48,200	13.0							39,400	10.5	36,800	9.9	33,800	9.2
191	4200	1.39	50,800	15.0							42,600	13	40,200	12.0	37,600	11.0
200	4400	1.53	53,600	17.5							45,800	15	43,600	14.0	41,200	13.0
209	4600	1.67	56,200	20									46,600	16.5	44,400	16.0
218	4800	1.82	58,800	23									49,600	19	47,000	18.5
227	5000	1.98	61,400	26											51,000	22

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
164	3600	1.02	20,200	5.0												
173	3800	1.14	26,000	6.7												
182	4000	1.27	30,800	8.5	21,800	6.6										
191	4200	1.39	34,800	10.5	28,000	8.8										
200	4400	1.53	38,600	12.5	32,800	11.0	24,400	8.9								
209	4600	1.67	42,200	15.0	37,000	13.5	30,800	11.5	18,400	8.0						
218	4800	1.82	45,600	17.5	40,800	16.0	35,400	14.0	28,200	12.0						
228	5000	1.98	48,800	20	43,600	18.5	39,600	17	34,000	15.0	25,200	12				
239	5250	2.18	52,800	25	49,000	22	44,600	21	39,600	19	33,600	17				
250	5500	2.39	56,800	29	53,200	27	49,200	25	45,000	23	40,000	21	22,000	15		
261	5750	2.61			57,200	32	53,400	29	49,600	28	45,100	26	33,800	21		
273	6000	2.85			61,200	37	58,000	35	53,800	32	50,200	31	41,000	26	22,400	17
284	6250	3.09					62,000	41	58,600	38	55,000	36	46,800	32	35,800	26
296	6500	3.33					65,800	47	62,800	44	59,400	42	52,000	38	43,200	33
307	6750	3.60					69,800	54	67,000	50	63,600	48	57,200	44	49,200	39
318	7000	3.88							71,000	58	68,000	56	61,800	50	54,800	46
330	7250	4.15							74,800	66	71,800	62	66,200	58	59,600	54
341	7500	4.45									76,000	72	70,400	66	64,600	62
352	7750	4.75									80,000	84	74,800	74	69,000	70
364	8000	5.06											78,800	86	73,600	78
375	8250	5.38											83,000	94	77,800	88
386	8500	5.71											87,000	105	81,600	100
397	8750	6.05											90,800	115	86,000	110
409	9000	6.41													90,000	120

Double Inlet **Double Width**

7' Steel Plate Fan—Design 2—Cont'd

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
296	6500	3 33	24,800	22												
307	6750	3 60	38,400	33												
318	7000	3 88	46,000	40	30,800	30										
330	7250	4 15	52,200	48	42,000	44										
341	7500	4 45	57,600	56	49,800	50										
352	7750	4 75	62,600	64	56,000	60	29,200	36								
364	8000	5 06	67,800	74	61,400	68	43,600	54								
375	8250	5 37	72,200	82	66,800	78	51,600	64								
386	8500	5 71	77,200	94	71,400	88	58,400	74	32,000	48						
397	8750	6 05	81,200	105	75,800	98	64,600	86	46,400	68						
409	9000	6 41	85,600	115	80,400	110	69,600	98	55,200	84						
432	9500	7 14	93,800	155	88,800	135	80,000	125	69,000	110	53,000	90				
455	10000	7 91	102,000	170	97,600	165	89,000	150	79,600	135	68,000	120	49,600	96		
478	10500	8 72			106,000	195	98,200	185	89,600	170	80,000	150	67,800	135	46,000	100
500	11000	9.57			114,000	230	106,000	210	98,800	200	90,200	185	80,400	170	67,000	150
523	11500	10 5					114,000	250	107,000	240	99,400	220	91,200	210	81,000	190
547	12000	11 4					122,000	300	115,000	280	109,000	260	101,000	250	92,200	230
568	12500	12 4							124,000	320	117,000	310	110,000	290	103,000	270
592	13000	13 4							132,000	370	126,000	360	119,000	340	112,000	320
615	13500	14 4							140,000	440	134,000	410	128,000	390	121,000	370
637	14000	15 5									142,000	470	136,000	450	130,000	420

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
500	11000	9.57	41,000	110												
523	11500	10.5	68,200	170	43,200	120										
547	12000	11.4	82,600	210	69,200	190	44,400	135								
568	12500	12.4	94,000	260	84,400	240	71,400	210	46,400	150						
592	13000	13.4	104,000	300	96,400	280	87,000	260	74,200	240	50,400	175				
615	13500	14 4	114,000	350	107,000	340	99,000	320	89,400	290	77,000	260	56,000	210		
637	14000	15 5	124,000	410	117,000	390	110,000	370	102,000	350	92,200	330	80,200	290		

Double Inlet **Double Width**

7½' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
59	1400	0.155	12,100	0.41												
68	1600	0.202	17,600	0.71												
77	1800	0.256	20,600	1.10	11,600	0.71										
85	2000	0.316	24,000	1.65	17,700	1.2										
94	2200	0.383	27,600	2.2	22,200	1.8	11,100	1.3								
102	2400	0.456	30,800	2.9	26,100	2.5	20,400	2.0								
111	2600	0.534	33,800	3.8	30,000	3.4	25,200	2.9	18,500	2.3						
119	2800	0.620	37,000	4.7	33,600	4.4	29,400	3.8	24,400	3.3	16,300	2.5				
127	3000	0.712	40,200	6.1			33,400	5.0	29,200	4.1	23,600	3.8	13,100	2.5		
136	3200	0.810	43,200	7.4			37,000	6.4	33,200	5.7	28,800	5.1	23,200	4.3		
144	3400	0.914	46,400	9.1			40,600	7.9	37,100	7.2	33,200	6.5	29,000	5.8	23,200	5.0
153	3600	1.02	49,400	11.0					41,200	8.6	37,200	8.1	33,400	7.5	29,400	6.7
161	3800	1.14	52,600	12.5					44,800	11	41,600	10.0	38,000	9.2	34,600	8.6
170	4000	1.27	55,400	15							45,200	12.0	42,400	11.5	39,000	10.5
178	4200	1.39	58,400	17							48,800	14.5	46,200	14	43,200	13
187	4400	1.53	61,600	20							52,600	17	50,200	16	47,200	15
195	4600	1.67	64,600	23									53,600	19	51,200	18
204	4800	1.82	67,600	26									57,200	22	54,800	21
212	5000	1.98	70,600	30											58,600	25

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq.inch		Static Pressure 1¼" Water .723 per ozs. sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pessure 3" Water 1.73 ozs. per sq. inch	
153	3600	1.02	23,400	5.7												
161	3800	1.14	30,000	7.7												
170	4000	1.27	35,400	9.8	25,000	7.6										
178	4200	1.39	40,000	12.0	32,200	10.0										
187	4400	1.53	44,400	14.5	37,600	12.5	28,200	10.0								
195	4600	1.67	48,600	16	42,400	15.5	35,400	13.5	21,300	8.6						
204	4800	1.82	52,400	20	46,800	18	40,800	16.5	32,400	14.0						
212	5000	1.98	56,200	23	50,400	21	45,600	19.5	39,000	17.5	29,000	14.0				
223	5250	2.18	60,800	28	56,400	26	51,200	24	45,600	22	38,800	19.5				
233	5500	2.39	65,200	33	61,200	31	56,400	29	51,600	25	46,000	24	25,200	17.5		
244	5750	2.61			65,600	36	61,400	34	57,200	32	52,200	30	39,000	24		
255	6000	2.85			70,400	42	66,600	40	61,800	37	57,800	35	47,200	30	25,600	19.5
265	6250	3.09					71,200	47	67,400	44	63,400	42	54,000	37	41,200	30
276	6500	3.33					75,800	54	72,400	52	68,200	48	59,600	43	49,600	38
287	6750	3.60					80,200	62	77,000	58	73,200	56	65,600	50	56,800	45
297	7000	3.88							81,600	68	78,400	64	71,000	58	62,800	54
307	7250	4.15							86,000	76	82,600	72	78,200	66	68,600	62
318	7500	4.45									87,400	84	81,000	76	74,200	70
328	7750	4.75									92,000	94	86,000	86	79,400	80
340	8000	5.06											90,600	98	84,600	90
350	8250	5.38											95,000	105	89,400	100
361	8500	5.71											100,000	120	93,800	115
371	8750	6.05											104,000	130	99,000	130
382	9000	6.41													103,000	140

Double Inlet 7½' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
276	6500	3 33	28,400	25												
287	6750	3 60	44,400	38												
297	7000	3 88	53,000	47	35,400	35										
307	7250	4 15	60,200	56	48,400	47										
318	7500	4 45	66,400	64	57,200	58										
328	7750	4 75	72,000	74	64,400	68	33,600	42								
340	8000	5 06	78,000	84	70,800	78	50,200	60								
350	8250	5 37	83 200	96	76,800	90	59,400	74								
361	8500	5 71	88,800	110	82,200	100	67,200	86	36,800	56						
371	8750	6 05	93,400	120	87,400	110	74,400	100	53,600	80						
382	9000	6 41	98,600	130	92,600	130	80,200	110	63,600	96						
403	9500	7 14	108,000	165	102,000	155	92,000	140	79,200	125	61,000	105				
425	10000	7 91	117,000	200	112,000	190	102,000	170	91,600	155	78,200	140	57,200	110		
447	10500	8 72			122,000	230	113,000	210	103,000	190	92,000	175	78,200	155	53,000	115
468	11000	9 57			131,000	270	122,000	250	113,000	230	103,000	210	92,600	195	77,000	170
488	11500	10 5					131,000	290	123,000	280	114,000	250	105,000	240	93,000	220
510	12000	11 4					141,000	340	133,000	320	125,000	300	116,000	280	106,000	270
531	12500	12 4							142,000	370	135,000	350	126,000	330	118,000	320
552	13000	13 4							151,000	430	144,000	410	137,000	390	129,000	370
574	13500	14 4							161,000	500	154,000	470	157,000	440	139,000	420
595	14000	15 5									163,000	510	156,000	510	159,000	490

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
468	11000	9 57	50,600	125												
488	11500	10 5	78,600	190	49,600	135										
510	12000	11 4	95,000	240	79,600	220	51,200	155								
531	12500	12 4	108,000	290	97,000	270	82,200	240	43,400	175						
552	13000	13 4	120,000	350	111,000	330	100,000	300	85,400	170	58,000	200				
574	13500	14 4	131,000	410	123,000	390	114,000	360	103,000	340	88,600	300	64 400	240		
595	14000	15 5	142,000	470	134,000	450	126,000	430	117,000	400	106,000	370	92,200	340		

Double Inlet

8' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inches	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
56	1400	0.155	13,800	0.47												
64	1600	0.202	18,900	0.81												
72	1800	0.256	23,400	1.2	13,300	0.91										
79	2000	0.316	27,400	1.9	20,200	1.4										
87	2200	0.383	31,200	2.5	25,400	2.1	16,100	1.5								
96	2400	0.456	35,000	3.3	30,000	2.9	23,200	2.3								
103	2600	0.534	38,400	4.3	34,200	3.8	28,600	3.3	21,200	2.6						
111	2800	0.620	42,200	5.4	38,400	5	33,400	4.1	27,600	3.8	18,600	2.8				
119	3000	0.712	46,000	7.0			38,000	5.7	33,200	5.0	27,000	4.3	14,900	2.8		
127	3200	0.810	49,200	8.4			42,000	7.2	38,000	6.5	32,800	5.8	26,400	4.9		
135	3400	0.914	53,000	10.5			46,400	9	42,600	8.2	37,800	7.4	33,000	6.7	26,400	5.6
143	3600	1.02	56,400	12.0					46,800	9.8	42,400	9.2	38,200	8.5	33,600	7.7
151	3800	1.14	60,000	14.5					51,000	12.5	47,400	11.5	43,200	10.5	39,400	9.8
159	4000	1.27	63,200	17.5							51,600	14.0	48,400	13.0	44,400	12.0
167	4200	1.39	66,800	19.5							55,800	16.5	52,800	15.0	49,200	14.5
175	4400	1.53	70,400	23							60,000	19.5	57,000	18.5	54,000	17.5
183	4600	1.67	73,800	26									61,000	22	58,400	21
191	4800	1.82	77,200	30									65,000	25	62,600	24
199	5000	1.98	80,600	34											66,800	28

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
143	3600	1.02	26,600	6.5												
151	3800	1.14	34,200	8.8												
159	4000	1.27	40,400	11.0	28,400	8.7										
167	4200	1.39	45,600	14.0	36,600	11.5										
175	4400	1.53	50,000	16.5	43,000	14.5	32,000	11.5								
183	4600	1.67	55,400	19.5	48,400	17.5	40,400	15.5	24,200	10.5						
191	4800	1.82	59,600	23	53,400	21	46,400	19	36,800	16						
199	5000	1.98	64,000	27	57,400	24	52,000	22	44,600	20	33,000	16				
209	5250	2.18	69,200	32	64,200	29	58,400	27	52,000	25	44,200	22				
219	5500	2.39	74,400	38	67,800	35	64,000	33	59,000	30	52,600	28	28,800	20		
220	5750	2.61			74,800	42	70,000	38	65,200	36	59,600	34	44,400	27		
239	6000	2.85			80,200	48	76,000	46	70,600	42	66,000	40	53,800	35	29,200	22
249	6250	3.00					81,400	54	76,800	50	72,200	48	61,600	42	46,800	34
258	6500	3.33					86,400	62	82,400	58	79,800	54	68,000	49	56,600	43
268	6750	3.60					91,600	70	88,000	66	83,600	64	74,800	58	64,600	52
278	7000	3.88							93,000	76	89,200	74	81,000	66	71,800	60
288	7250	4.15							98,000	88	94,200	82	86,800	76	78,400	70
208	7500	4.45									99,600	96	92,400	86	84,600	80
308	7750	4.75									105,000	110	98,000	98	90,600	90
318	8000	5.06											103,000	110	97,000	105
328	8250	5.38											109,000	125	102,000	115
338	8500	5.71											114,000	140	107,000	130
348	8750	6.05											119,000	150	113,000	145
358	9000	6.41													118,000	160

Double Inlet **Double Width**

8' Steel Plate Fan—Design 2—Cont'd

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
258	6500	3.33	32,400	28												
268	6750	3 60	50,400	43												
278	7000	3 88	60,400	54	40,400	40										
288	7250	4 15	68,600	64	55,200	54										
298	7500	4 45	75,600	74	65,200	66										
308	7750	4 75	82,400	86	73,600	78	38,200	48								
318	8000	5 06	89,000	96	80,600	90	57,200	70								
328	8250	5 37	95,000	110	87,600	105	67,800	81								
338	8500	5.71	101,000	125	93,600	115	76,800	98	42,000	64						
348	8750	6.05	107,000	135	99,600	130	84,800	110	61,000	90						
358	9000	6.41	112,000	150	105,000	145	91,600	130	72,400	110						
378	9500	7 11	123,000	190	117,000	175	105,000	160	90,400	145	69,600	120				
398	10000	7 91	134,000	230	128,000	220	117,000	195	101,000	180	89,000	160	65,200	130		
418	10500	8 72			139,000	260	129,000	240	118,000	220	105,000	200	89,000	180	60,600	130
438	11000	9 57			150,000	300	140,000	280	129,000	260	118,000	240	105,000	220	88,600	195
458	11500	10 5					150,000	330	140,000	310	131,000	290	120,000	270	106,000	250
478	12000	11.4					161,000	390	151,000	370	143,000	340	133,000	320	121,000	300
498	12500	12.4							162,000	420	154,000	400	114,000	380	135,000	360
518	13000	13.4							173,000	490	165,000	470	157,000	440	147,000	420
538	13500	14 4							184,000	570	176,000	560	168 000	510	159,000	480
558	14000	15.5									187,000	620	179,000	580	171,000	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
438	11000	9 57	57,800	145												
458	11500	10 5	89 600	220	56,600	155										
478	12000	11 4	109,000	280	90,800	250	58,400	175								
498	12500	12 4	123,000	340	111,000	310	93,800	270	61,000	200						
518	13000	13 4	137,000	400	126,000	370	114,000	350	97,400	310	66,000	230				
538	13500	14.4	149,000	460	140,000	440	129,000	420	117,000	380	101,000	350	73,400	270		
558	14000	15 5	162,000	530	153,000	510	144,000	490	133,000	460	121,000	430	105,000	390		

Double Inlet

8½' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
52	1400	0.155	15,500	0.53												
60	1600	0.202	21,400	0.91												
68	1800	0.256	26,100	1.4	15,000	0.91										
75	2000	0.316	30,800	2.1	22,600	1.60										
82	2200	0.383	35,200	2.8	28,600	2.30	18,100	1.65								
90	2400	0.456	39,200	3.7	33,800	3.2	26,200	2.6								
97	2600	0.534	43,200	4.8	38,100	4.3	32,200	3.7	23,800	2.9						
105	2800	0.620	47,400	6.0	43,000	5.6	37,600	4.9	31,000	4.2	21,000	3.2				
112	3000	0.712	51,600	7.8			42,600	6.4	37,400	5.6	30,200	4.8	16,800	3.2		
120	3200	0.810	55,100	4.5			47,200	8.1	42,600	7.3	37,000	6.5	29,600	5.5		
127	3400	0.914	59,100	12			52,200	10	47,800	9.2	42,400	8.3	37,000	7.5	29,600	6.3
135	3600	1.02	63,400	14					52,600	11	47,600	10.5	42,800	9.6	37,800	8.6
142	3800	1.14	67,400	16					57,000	14	53,400	13.0	48,600	12.0	44,200	11.0
150	4000	1.27	71,000	19							58,000	15.5	54,200	14.5	49,800	13.5
157	4200	1.39	75,000	22							62,800	19	59,200	17	55,400	16.5
165	4400	1.53	79,000	26							67,400	22	64,000	21	60,600	19.5
172	4600	1.67	82,800	29									68,800	25	65,600	23
180	4800	1.82	87,600	33									73,200	28	70,400	27
187	5000	1.98	90,400	38											75,000	32

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .868 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
135	3600	1.02	30,000	7.6												
142	3800	1.14	38,000	8.9												
150	4000	1.27	45,000	12.5	32,000	9.3										
157	4200	1.39	51,200	15.5	41,200	13.0										
165	4400	1.53	56,800	18.5	48,200	16.0	36,000	13.5								
172	4600	1.67	62,200	22	54,400	19.5	45,400	17	27,200	12						
180	4800	1.82	67,000	26	60,000	23	52,200	21	41,400	18						
187	5000	1.98	72,000	30	64,400	27	58,400	25	50,000	22	37,000	18				
197	5250	2.18	77,800	36	72,000	33	65,600	31	58,600	28	49,600	25				
206	5500	2.39	83,600	43	78,400	40	72,600	37	66,200	34	59,000	31	32,400	22		
215	5750	2.61			84,000	46	78,000	43	73,200	41	66,800	38	50,000	31		
225	6000	2.85			90,200	54	85,400	52	79,200	48	74,000	45	60,400	39	33,000	25
234	6250	3.09					91,200	60	86,400	56	81,000	54	69,000	47	52,600	39
242	6500	3.33					97,000	70	93,000	66	87,400	62	76,400	56	63,600	48
253	6750	3.60					103,000	80	98,600	76	94,000	72	84,000	64	72,600	58
262	7000	3.88							104,000	86	100,000	82	91,000	71	80,600	64
271	7250	4.15							110,000	98	106,000	92	97,600	86	88,000	80
281	7500	4.45									112,000	110	104,000	96	95,000	90
290	7750	4.75									118,000	120	110,000	110	102,000	105
299	8000	5.06											116,000	125	109,000	115
308	8250	5.38											122,000	140	115,000	130
318	8500	5.71											128,000	155	120,000	150
327	8750	6.05											134,000	170	127,000	165
337	9000	6.41													133,000	180

Double Inlet 8½' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. In Inches	Static Pressure 3¼" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
242	6500	3 33	36,400	32												
253	6750	3 60	56,800	48												
262	7000	3 88	67,800	60	45,200	44										
271	7250	4 15	77,000	72	62,000	60										
281	7500	4 45	83,000	84	73,200	74										
290	7750	4 75	92,400	96	82,600	88	43,000	54								
299	8000	5 06	100,000	110	90,600	100	64,200	78								
308	8250	5 37	107,000	120	98,400	115	76,200	94								
318	8500	5 71	114,000	135	105,000	130	86,200	110	47,200	70						
327	8750	6 05	120,000	150	112,000	145	95,200	130	68,400	110						
337	9000	6 41	126,000	170	119,000	160	103,000	145	81,400	125						
356	9500	7 14	138,000	210	131,000	195	118,000	180	102,000	160	78,200	130				
374	10000	7 91	150,000	250	144,000	240	121,000	220	117,000	200	100,000	180	73,200	140		
394	10500	8 72			156,000	290	145,000	270	132,000	250	118,000	220	100,000	200	68,000	150
412	11000	9 57			169,000	340	157,000	320	145,000	290	133,000	270	119,000	250	99,400	220
431	11500	10 5					169,000	370	157,000	350	147,000	330	134,000	310	119,000	280
450	12000	11 4					180,000	410	170,000	410	160,000	380	149,000	360	138,000	340
468	12500	12 4							182,000	480	173,000	450	162,000	420	151,000	400
487	13000	13 4							194,000	550	185,000	520	176,000	500	165,000	470
507	13500	14 4							206,000	640	197,000	610	188,000	570	178,000	540
525	14000	15 5									210,000	690	200,000	660	192,000	620

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
412	11000	9 57	64,800	160												
431	11500	10 5	101,000	250	63,600	175										
450	12000	11 4	122,000	310	102,000	280	65,600	195								
468	12500	12 4	138,000	380	124,000	350	105,000	310	68,400	220						
487	13000	13 4	154,000	450	142,000	420	128,000	390	100,000	350	74,200	260				
507	13500	14 4	168,000	520	158,000	500	146,000	470	132,000	430	113,000	390	82,400	300		
525	14000	15 5	182,000	600	172,000	570	162,000	550	150,000	510	130,000	480	118,000	430		

Double Inlet

9' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½'' Water .289 ozs. per sq. inch		Static Pressure ⅝'' Water .361 ozs. per sq. inch		Static Pressure ¾'' Water .434 ozs. per sq. inch		Static Pressure ⅞'' Water .506 ozs. per sq. inch	
50	1400	0.155	17,500	0.59												
57	1600	0.202	21,000	1.00												
64	1800	0.256	29,600	1.55	16,800	1.00										
71	2000	0.316	34,600	2.40	25,400	1.75										
78	2200	0.383	39,400	3.2	32,000	2.6	20,400	1.85								
85	2400	0.456	44,200	4.2	38,000	3.6	29,400	2.9								
92	2600	0.534	48,600	5.4	43,200	1.8	36,200	4.1	26,600	3.3						
99	2800	0.620	51,400	6.8	48,100	6.3	42,200	5.5	35,000	4.7	23,600	3.6				
106	3000	0.712	58,000	8.8			47,800	7.2	42,000	6.3	34,000	5.4	18,900	3.5		
113	3200	0.810	62,200	11.0			53,200	9.1	47,800	8.2	41,400	7.3	33,200	6.2		
120	3400	0.914	66,800	13.0			58,600	11.5	53,800	10.5	47,800	9.3	41,600	8.4	33,200	7.1
127	3600	1.02	71,200	15.5					59,200	12.5	53,600	11.5	48,200	11.0	42,400	9.7
134	3800	1.14	75,800	18					64,100	15.5	59,800	14.5	54,800	13.5	49,800	12.0
141	4000	1.27	79,800	21							65,200	17.5	61,000	16.5	56,000	15.5
149	4200	1.39	84,400	25							70,400	21	66,600	20	62,200	18.5
155	4400	1.53	88,800	29							75,800	25	72,000	23	68,200	22
163	4600	1.67	93,200	33									77,200	28	73,600	26
170	4800	1.82	97,400	38									82,200	32	79,000	31
179	5000	1.98	102,000	43											84,400	36

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1'' Water .578 ozs. per sq. inch		Static Pressure 1¼'' Water .723 ozs. per sq. inch		Static Pressure 1½'' Water .866 ozs. per sq. inch		Static Pressure 1¾'' Water 1.01 ozs. per sq. inch		Static Pressure 2'' Water 1.16 ozs. per sq. inch		Static Pressure 2½'' Water 1.45 ozs. per sq. inch		Static Pressure 3 ''Water 1.73 ozs. per sq. inch	
127	3600	1.02	33,600	8												
134	3800	1.14	43,200	11												
141	4000	1.27	51,000	14	36,000	11.0										
149	4200	1.39	57,600	17	46,200	14.5										
155	4400	1.53	63,800	21	54,200	18	40,600	15.0								
163	4600	1.67	70,000	25	61,200	22	51,000	19.5	30,400	13						
170	4800	1.82	75,400	29	67,400	26	58,800	24	46,400	20						
177	5000	1.98	80,800	34	72,400	30	65,600	28	56,200	25	41,600	20				
186	5250	2.18	87,500	41	81,000	37	73,600	34	65,800	32	55,800	28				
194	5500	2.39	91,000	48	88,000	44	81,600	41	74,400	38	66,500	35	36,400	25		
204	5750	2.61			94,600	52	88,400	48	82,200	46	75,200	43	56,000	34		
212	6000	2.85			101,000	62	96,000	58	89,000	54	83,200	50	68,000	44	37,000	28
221	6250	3.09					103,000	68	97,000	64	91,200	60	77,600	52	59,200	44
230	6500	3.33					109,000	78	104,000	74	98,200	70	86,000	62	71,600	54
239	6750	3.60					116,000	90	111,000	84	105,000	80	94,600	74	81,600	66
248	7000	3.88							117,000	98	113,000	92	102,000	84	90,600	76
256	7250	4.15							124,000	110	119,000	105	110,000	96	99,000	88
266	7500	4.45									126,000	120	117,000	110	107,000	100
274	7750	4.75									132,000	135	124,000	125	114,000	115
283	8000	5.06											134,000	140	122,000	130
291	8250	5.38											137,000	155	129,000	145
301	8500	5.71											144,000	175	135,000	165
309	8750	6.05											150,000	190	143,000	185
319	9000	6.41													149,000	200

Double Inlet

9' Steel Plate Fan—Design 2—Cont'd

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
230	6500	3 33	41,000	36												
239	6750	3 60	63,800	54												
248	7000	3 88	76,200	68	50,800	50										
256	7250	4 15	86,600	80	69,600	68										
266	7500	4 45	95,400	94	82,400	84										
274	7750	4 75	104,000	108	92,800	100	48,400	60								
283	8000	5 06	112,000	120	102,000	110	72,200	88								
291	8250	5 37	120,000	135	111,000	130	85,600	110								
301	8500	5 71	128,000	155	118,000	145	96,800	120	53,000	80						
309	8750	6 05	135,000	170	126,000	160	107,000	145	77,000	110						
319	9000	6 41	142,000	190	134,000	180	115,000	160	90,000	135						
336	9500	7 14	156,000	240	147,000	220	132,000	200	114,000	180	88,000	150				
354	10000	7 91	169,000	290	162,000	270	148,000	250	132,000	230	112,000	200	82,200	160		
372	10500	8.72			176,000	330	163,000	300	148 000	280	132,000	250	112,000	220	76,400	170
389	11000	9.57			189,000	380	178,000	350	163,000	330	149,000	310	133,000	280	112,000	250
407	11500	10 5					190,000	420	177,000	400	165,000	370	151,000	340	134,000	310
424	12000	11 4					204,000	490	191,000	460	180,000	430	168,000	410	153,000	380
442	12500	12 4							204,000	540	194,000	500	182,000	480	170,000	450
460	13000	13 4							218,000	620	208,000	590	197,000	560	186,000	530
477	13500	14 4							232,000	720	222,000	680	212,000	640	200,000	610
495	14000	15 5									236,000	780	226,000	740	216,000	700

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 oz. per sq. inch		Static Pressure 13" Water 7.51 oz. per sq. inch		Static Pressure 14" Water 8.09 ozs per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
389	11000	9 57	72,800	180												
407	11500	10 5	113,000	280	71,600	195										
424	12000	11 4	137,000	350	115,000	310	73 600	220								
442	12500	12 4	156,000	420	140,000	390	118,000	350	77,000	150						
460	13000	13 4	173,000	500	160,000	470	144,000	440	123,000	390	83,400	290				
477	13500	14 4	189,000	580	177,000	560	164,000	520	148,000	480	128,000	440	92,600	340		
495	14000	15 5	204,000	680	193,000	640	182,000	620	168,000	580	153,000	540	133,000	490		

Double Inlet

9½' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
47	1400	0.155	19,500	0.66												
54	1600	0.202	26,800	1.05												
60	1800	0.256	33,000	1.75	18,800	1.05										
67	2000	0.316	38,600	2.7	28,400	2.0										
74	2200	0.383	44,200	3.5	35,800	2.9	22,800	2.1								
80	2400	0.456	49,400	4.7	42,400	4.1	32,800	3.3								
87	2600	0.534	54,400	6.1	48,200	5.4	40,400	4.6	29,800							
94	2800	0.620	59,600	7.6	54,000	7	47,200	6.2	39,000	5.3	26,400	4.0				
100	3000	0.712	64,800	9.8			53,600	8	47,000	7.0	38,000	6.1	21,000	4.0		
107	3200	0.810	69,600	12			59,400	10	53,400	9.2	46,400	8.2	37,200	6.9		
114	3400	0.914	74,800	15			65,400	13	60,000	11.5	53,400	10.5	46,600	9.4	37,200	8
120	3600	1.02	78,800	16					66,000	14.0	60,000	13.0	53,800	12	47,400	11
127	3800	1.14	84,600	20					72,000	17.5	66,800	16.0	61,000	15	55,600	14
134	4000	1.27	89,200	24							72,800	19.5	68,200	18	62,600	17
141	4200	1.39	94,200	28							78,600	24	74,400	22	69,600	20
147	4400	1.53	99,200	32							84,600	28	80,400	26	76,200	25
154	4600	1.67	104,000	37									86,400	31	82,200	29
161	4800	1.82	109,000	42									92,000	36	88,400	34
168	5000	1.98	113,000	48											91,400	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
120	3600	1.02	37,600	9.1												
127	3800	1.14	48,200	12.5												
134	4000	1.27	57,000	16.0	40,200	12										
141	4200	1.39	64,400	19.5	51,600	16										
147	4400	1.53	71,200	23	60,600	20	45,200	16.5								
154	4600	1.67	78,000	28	68,400	25	57,000	22	34,000	15						
161	4800	1.82	84,000	32	75,400	29	65,600	26	52,000	22						
167	5000	1.98	90,200	38	80,800	34	73,200	32	62,800	28	46,400	23				
176	5250	2.18	97,600	46	90,600	41	82,400	38	73,400	35	62,200	31				
184	5500	2.39	105,000	54	98,400	50	91,000	46	83,000	43	74,200	39	40,600	28		
193	5750	2.61			105,000	58	99,800	54	91,800	52	84,000	48	62,600	38		
201	6000	2.85			113,000	68	107,000	64	99,400	60	93,000	56	76,000	49	41,200	31
209	6250	3.09					114,000	76	108,000	70	102,000	66	86,600	58	66,000	48
218	6500	3.33					122,000	88	116,000	82	109,000	78	96,000	70	79,800	60
226	6750	3.60					129,000	100	124,000	94	118,000	90	105,000	82	91,200	72
234	7000	3.88							131,000	110	126,000	105	114,000	94	101,000	86
242	7250	4.15							138,000	125	133,000	115	122,000	110	110,000	100
251	7500	4.45									140,000	135	130,000	120	119,000	110
260	7750	4.75									148,000	150	138,000	140	128,000	130
268	8000	5.06											145,000	155	136,000	145
276	8250	5.38											155,000	175	144,000	165
285	8500	5.71											160,000	195	152,000	185
293	8750	6.05											168,000	210	159,000	200
301	9000	6.41													166,000	220

Double Inlet

9½' Steel Plate Fan—Design 2—Cont'd

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.04 ozs. per sq. inch		Static Pressure 8″ Water 4.62 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
218	6500	3 33	45,800	40												
226	6750	3 60	71,200	60												
234	7000	3 88	85,200	76	56,800	56										
242	7250	4 15	96,600	90	77,800	76										
251	7500	4 45	107,000	105	92,000	92										
260	7750	4 75	116,000	120	104,000	110	54,000	68								
268	8000	5 06	125,000	135	114,000	130	80,600	98								
276	8250	5 37	134,000	150	124,000	145	95,600	120								
285	8500	5 71	143,000	170	132,000	160	108,000	140	59,200	90						
293	8750	6 05	150,000	190	140,000	180	119,000	160	86,000	130						
301	9000	6 41	158,000	210	149,000	200	129,000	180	102,000	150						
318	9500	7 14	174,000	260	164,000	250	148,000	230	127,000	200	98,000	170				
335	10000	7 91	189,000	320	181,000	300	165,000	280	147,000	250	126,000	220	91,800	180		
352	10500	8 72			196,000	360	182,000	340	166,000	310	148,000	280	126,000	250	95,400	190
369	11000	9 57			212,000	430	197,000	400	183,000	370	167,000	340	149,000	320	125,000	280
385	11500	10 5					212,000	470	198,000	440	184,000	410	169,000	380	150,000	350
402	12000	11.4					226,000	550	214,000	520	200,000	480	188,000	460	171,000	430
418	12500	12 4							228,000	600	216,000	560	204,000	530	190,000	510
436	13000	13 4							244,000	690	232,000	660	220,000	620	208,000	590
452	13500	14 4							258,000	810	248,000	760	236,000	710	224,000	680
469	14000	15 5									262 000	870	252,000	820	240,000	780

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 00.0 ozs. per sq. inch	
369	11000	9 57	81,400	200												
385	11500	10 5	126,000	310	80,000	220										
402	12000	11 4	153,000	390	128,000	350	82,200	250								
418	12500	12 4	174,000	470	156,000	440	132,000	390	86,000	280						
436	13000	13 4	193,000	560	178,000	530	161,000	490	137,000	440	93,000	330				
452	13500	14 4	212,000	650	198,000	620	183,000	580	165,000	540	143,000	490	103,000	380		
469	14000	15 5	228,000	750	216,000	720	202,000	690	188,000	640	171,000	600	148,000	540		

Double Inlet **Double Width**

10' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water 4.34 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
45	1400	0.155	21,600	0.73												
51	1600	0.202	29,600	1.3												
57	1800	0.256	36,600	1.9	20,800	1.3										
64	2000	0.316	42,600	2.9	31,400	2.2										
70	2200	0.383	48,800	3.9	39,600	3.2	25,000	2.3								
76	2400	0.456	54,200	4.2	46,800	4.5	36,200	3.6								
83	2600	0.534	59,800	6.7	53,200	6.0	44,600	5.1	33,000	4.1						
89	2800	0.620	65,800	8.4	59,600	7.8	52,000	6.8	43,200	5.8	29,000	4.4				
95	3000	0.712	71,400	11			59,200	8.9	51,800	7.8	42,000	6.7	23,200	4.4		
102	3200	0.810	76,800	13			65,600	11	59,000	10.0	51,200	9.0	41,000	7.6		
108	3400	0.914	82,600	16			72,200	14	66,400	13.0	59,000	11.5	51,400	10.5	41,000	8.8
115	3600	1.02	87,800	19					73,000	15.0	66,200	14.5	59,400	13.0	52,400	12.0
121	3800	1.14	93,600	22					79,400	19.5	74,000	18	67,400	16.5	61,400	15.0
127	4000	1.27	98,400	26							80,400	22	75,200	20	69,200	18.5
134	4200	1.39	104,000	30							87,000	26	82,000	25	76,800	23
140	4400	1.53	109,000	35							93,600	31	88,800	29	84,000	27
146	4600	1.67	115,000	40									95,200	34	91,000	32
153	4800	1.82	120,000	46									102,000	39	97,400	38
159	5000	1.98	125,000	52											104,000	44

R.P.M.	Tip Speed F.P.M	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½' Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
115	3600	1.02	41,400	10.0												
121	3800	1.14	53,200	13.5												
127	4000	1.27	63,000	17	44,400	13.5										
134	4200	1.39	71,200	21	57,000	18										
140	4400	1.53	78,600	26	66,800	23	50,000	18								
146	4600	1.67	86,200	31	75,400	27	62,800	24	37,600	16						
153	4800	1.82	93,000	36	83,200	32	72,400	29	57,400	25						
159	5000	1.98	99,800	42	89,200	38	81,000	35	69,400	31	51,200	25				
167	5250	2.18	108,000	50	100,000	46	91,000	42	81,000	39	68,800	34				
175	5500	2.39	116,000	60	109,000	54	100,000	50	91,800	47	81,800	43	44,800	31		
183	5750	2.61			116,000	64	109,000	60	101,000	56	92,800	52	69,200	42		
191	6000	2.85			125,000	76	118,000	72	109,000	66	102,000	62	83,800	54	45,600	35
199	6250	3.09					126,000	84	119,000	78	112,000	74	95,800	64	72,600	54
207	6500	3.33					134,000	96	128,000	90	121,000	86	106,000	76	88,200	66
215	6750	3.60					142,000	110	136,000	105	130,000	98	116,000	90	100,000	80
223	7000	3.88							145,000	120	139,000	110	126,000	105	111,000	94
230	7250	4.15							112,000	135	146,000	130	135,000	120	122,000	110
239	7500	4.45									154,000	150	144,000	130	132,000	125
246	7750	4.75									163,000	170	152,000	150	141,000	140
255	8000	5.06											160,000	175	150,000	160
262	8250	5.38											169,000	190	158,000	180
271	8500	5.71											177,000	220	166,000	200
278	8750	6.05											185,000	240	176,000	230
286	9000	6.41													184,000	250

Double Inlet 10' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
207	6500	3 33	50,600	44												
215	6750	3 60	78,600	68												
223	7000	3 88	94,000	82	62,800	62										
230	7250	4 15	107,000	98	86,000	84										
239	7500	4 45	118,000	115	102,000	100										
246	7750	4 75	128,000	130	115,000	120	59,600	74								
255	8000	5 06	139,000	150	126,000	140	89,200	110								
262	8250	5 37	148,000	170	136,000	160	106,000	130								
271	8500	5 71	158,000	190	146,000	180	119,000	150	65,400	98						
278	8750	6 05	166,000	210	155,000	200	132,000	175	95,000	140						
286	9000	6 41	175,000	240	165,000	220	143,000	200	113,000	170						
302	9500	7 14	192,000	290	182,000	270	163,000	250	141,000	220	108,000	185				
318	10000	7 91	208,000	350	199,000	340	182,000	300	163,000	280	139,000	250	101,000	195		
334	10500	8 72			216,000	400	200,000	370	183,000	340	163,000	310	139,000	280	94,200	210
350	11000	9 57			234,000	480	216,000	440	202,000	410	184,000	380	164,000	350	138,000	310
366	11500	10 5					284,000	520	218,000	490	204,000	450	187,000	420	165,000	390
382	12000	11 4					250,000	610	236,000	570	222,000	530	206,000	500	198,000	470
398	12500	12 4							252,000	660	240,000	620	224,000	590	210,000	560
414	13000	13 4							270,000	760	256,000	730	244,000	690	230,000	660
430	13500	14 4							286,000	890	274,000	840	260,000	790	248,000	760
446	14000	15 5									290,000	960	278,000	910	266,000	870

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
350	11000	9 57	90,000	220												
366	11500	10 5	139,000	340	88,400	240										
382	12000	11 4	169,000	430	141,000	380	91,000	270								
398	12500	12 4	192,000	520	172,000	480	146,000	430	95,000	310						
414	13000	13 4	214,000	620	197,000	580	177,000	540	152,000	480	103,000	360				
430	13500	14 4	234,000	720	218,000	690	202,000	650	182,000	600	157,000	540	114,000	420		
446	14000	15 5	252,000	830	238,000	800	224,000	700	208,000	710	188,000	670	164,000	600		

Double Inlet

11' Steel Plate Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
40	1400	0.155	26,200	0.89												
46	1600	0.202	35,800	1.55												
52	1800	0.256	44,200	2.3	25,200	1.5										
58	2000	0.316	51,600	3.5	38,000	2.6										
64	2200	0.383	59,000	4.7	48,000	3.9	30,400	2.8								
69	2400	0.456	66,000	6.3	56,600	5.4	43,800	4.4								
75	2600	0.534	72,400	8.1	64,400	7.2	54,000	6.2	39,800	4.9						
81	2800	0.620	79,600	11.5	72,200	9.5	63,000	8.3	52,200	7.1	35,200	5.3				
87	3000	0.712	86,600	13.0			73,600	11.0	62,800	9.5	50,800	8.1	28,200	5.3		
93	3200	0.810	93,000	16.0			79,400	13.5	71,400	12.0	62,000	11.0	49,600	9.3		
98	3400	0.914	100,000	19.5			87,400	17	80,200	15.5	71,200	14.0	62,200	12.5	49,600	10.5
104	3600	1.02	106,000	23					88,200	18.5	80,000	17.5	72,000	16	63,400	14.5
110	3800	1.14	113,000	27					96,000	23	89,400	22	81,800	20	74,400	18.5
116	4000	1.27	119,000	32							97,200	26	91,000	24	83,800	23
121	4200	1.39	126,000	37							105,000	31	99,400	30	92,800	27
127	4400	1.53	132,000	43							113,000	37	107,000	35	102,000	33
133	4600	1.67	139,000	49									115,000	41	110,000	39
139	4800	1.82	145,000	56									123,000	48	118,000	46
145	5000	1.98	152,000	64											126,000	54

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
104	3600	1.02	50,200	12.0												
110	3800	1.14	64,400	16.5												
116	4000	1.27	76,200	21	53,600	16.5										
121	4200	1.39	86,000	26	69,000	22										
127	4400	1.53	95,400	31	81,000	27	60,400	22								
133	4600	1.67	105,000	37	91,200	33	76,000	29	45,600	20						
139	4800	1.82	115,000	43	101,000	39	87,600	35	69,400	30						
145	5000	1.98	121,000	50	108,000	45	98,000	42	84,000	37	61,000	30				
152	5250	2.18	131,000	62	121,000	56	110,000	52	98,000	47	83,200	42				
159	5500	2.39	140,000	72	132,000	66	122,000	62	111,000	58	99,000	52	54,400	38		
166	5750	2.61			141,000	78	132,000	72	123,000	68	112,000	64	83,800	52		
174	6000	2.85			151,000	92	143,000	86	133,000	80	124,000	76	102,000	66	55,200	42
181	6250	3.00					153,000	100	145,000	94	136,000	90	116,000	78	88,400	64
188	6500	3.33					163,000	115	156,000	110	147,000	105	128,000	92	107,000	80
195	6750	3.60					172,000	130	105,000	130	158,000	120	141,000	110	122,000	98
203	7000	3.88							175,000	145	168,000	145	153,000	125	135,000	115
210	7250	4.15							185,000	165	177,000	155	164,000	145	148,000	130
217	7500	4.45									188,000	180	174,000	160	160,000	150
224	7750	4.75									198,000	200	185,000	185	171,000	170
231	8000	5.06											195,000	210	182,000	190
238	8250	5.38											204,000	230	193,000	220
246	8500	5.71											214,000	260	202,000	250
253	8750	6.05											224,000	290	212,000	270
260	9000	6.41													222,000	310

Double Inlet 10' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
207	6500	3 33	50,600	44												
215	6750	3 60	78,600	68												
223	7000	3 88	94,000	82	62,800	62										
230	7250	4 15	107,000	98	86,000	84										
239	7500	4 45	118,000	115	102,000	100										
246	7750	4 75	128,000	130	115,000	120	59,600	74								
255	8000	5 06	139,000	150	126,000	140	89,200	110								
262	8250	5 37	148,000	170	136,000	160	106,000	130								
271	8500	5 71	158,000	190	146,000	180	119,000	150	65,400	98						
278	8750	6 05	166,000	210	155,000	200	132,000	175	95,000	140						
286	9000	6 41	175,000	240	165,000	220	143,000	200	113,000	170						
302	9500	7 14	192,000	290	182,000	270	163,000	250	141,000	220	108,000	185				
318	10000	7 91	208,000	350	199,000	340	182,000	300	163,000	280	139,000	250	101,000	195		
334	10500	8 72			216,000	400	200,000	370	183,000	340	163,000	310	139,000	280	94,200	210
350	11000	9 57			234,000	480	216,000	440	202,000	410	184,000	380	164,000	350	138,000	310
366	11500	10 5					284,000	520	218,000	490	204,000	450	187,000	420	165,000	390
382	12000	11 4					250,000	610	236,000	570	222,000	530	206,000	500	198,000	470
398	12500	12 4							252,000	660	240,000	620	224,000	590	210,000	560
414	13000	13 4							270,000	760	256,000	730	244,000	690	230,000	660
430	13500	14 4							286,000	890	274,000	840	260,000	790	248,000	760
446	14000	15 5									290,000	960	278,000	910	266,000	870

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
350	11000	9 57	90,000	220												
366	11500	10 5	139,000	340	88,400	240										
382	12000	11 4	169,000	430	141,000	380	91,000	270								
398	12500	12 4	192,000	520	172,000	480	146,000	430	95,000	310						
414	13000	13 4	214,000	620	197,000	580	177,000	540	152,000	480	103,000	360				
430	13500	14 4	234,000	720	218,000	690	202,000	650	182,000	600	157,000	540	114,000	420		
446	14000	15 5	252,000	830	238,000	800	224,000	700	208,000	710	188,000	670	164,000	600		

Double Inlet **Double Width**

12' Steel Plate Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
37	1400	0.155	31,000	1.05												
42	1600	0.202	42,600	1.8												
48	1800	0.256	52,600	2.8	30,000	1.8										
53	2000	0.316	61,600	4.2	45,400	3.1										
58	2200	0.383	70,400	5.6	57,000	4.6	36,200	3.3								
64	2400	0.456	78,800	7.5	67,400	6.5	52,200	5.2								
69	2600	0.534	86,600	8.9	76,600	8.6	64,400	7.4	47,400	5.9						
74	2800	0.620	95,000	12.0	86,000	11	75,000	9.8	62,200	8.4	42,000	6.3				
80	3000	0.712	103,000	15.5			85,200	13	74,600	11.0	60,400	9.7	33,600	6.3		
85	3200	0.810	111,000	19			94,600	16	85,000	14.5	73,800	13.0	59,200	11		
90	3400	0.914	119,000	23			104,000	20	95,600	18.5	85,000	16.5	74,200	15	59,200	12.5
96	3600	1.02	127,000	27					105,000	22	95,400	21	85,800	19	75,400	17
101	3800	1.14	135,000	32					115,000	28	107,000	26	97,200	24	88,600	22
106	4000	1.27	142,000	38							116,000	33	109,000	29	99,600	27
111	4200	1.39	150,000	44							125,000	37	118,000	35	111,000	33
117	4400	1.53	158,000	52							135,000	44	128,000	42	121,000	39
122	4600	1.67	167,000	58									137,000	49	131,000	46
127	4800	1.82	173,000	66									146,000	56	141,000	54
137	5000	1.98	181,000	76											150,000	64

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch	
96	3600	1.02	59,600	14.5												
101	3800	1.14	76,600	20												
106	4000	1.27	90,600	25	64,000	19.5										
111	4200	1.39	102,000	31	82,000	26										
117	4400	1.53	113,000	37	96,400	33	72,000	26								
122	4600	1.67	124,000	44	109,000	39	91,000	34	54,200	24						
127	4800	1.82	134,000	52	120,000	47	104,000	42	82,800	35						
132	5000	1.98	144,000	60	129,000	54	117,000	50	100,000	45	74,000	36				
139	5250	2.18	156,000	72	144,000	66	131,000	62	117,000	56	99,000	50				
146	5500	2.39	167,000	86	157,000	80	145,000	74	132,000	68	118,000	62	64,600	45		
153	5750	2.61			168,000	94	157,000	86	146,000	82	134,000	76	99,800	62		
159	6000	2.85			180,000	110	171,000	100	158,000	96	148,000	90	121,000	78	65,800	50
166	6250	3.09					182,000	120	173,000	110	162,000	110	138,000	94	105,000	78
172	6500	3.33					194,000	140	185,000	130	175,000	125	153,000	110	127,000	96
179	6750	3.60					206,000	160	197,000	150	188,000	145	168,000	130	145,000	115
186	7000	3.88							210,000	170	200,000	165	182,000	150	161,000	135
192	7250	4.15							220,000	195	212,000	185	195,000	170	176,000	160
199	7500	4.45									224,000	210	208,000	190	190,000	180
205	7750	4.75									236,000	240	220,000	220	204,000	200
212	8000	5.06											232,000	250	218,000	230
219	8250	5.38											244,000	280	230,000	260
226	8500	5.71											256,000	310	240,000	290
232	8750	6.05											268,000	340	254,000	330
239	9000	6.41													266,000	360

Double Inlet

12' Steel Plate Fan—Design 2—Cont'd

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

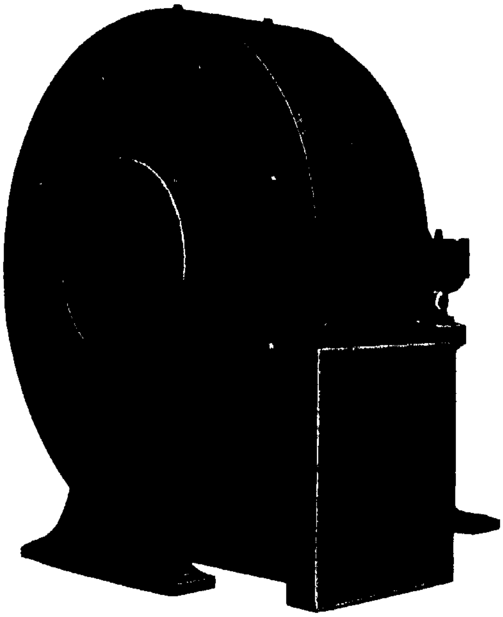
.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3¼" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.04 ozs. per sq. inch		Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
172	6500	3 33	73,000	64												
179	6750	3 60	113,000	96												
186	7000	3 88	136,000	120	90,400	88										
192	7250	4 15	154,000	145	124,000	120										
199	7500	4 45	170,000	170	147,000	150										
205	7750	4.75	185,000	190	165,000	175	86,000	110								
212	8000	5 06	200,000	220	181,000	200	128,000	155								
219	8250	5 37	214,000	240	197,000	230	152,000	190								
226	8500	5 71	228,000	270	210,000	260	172,000	220	94,000	140						
232	8750	6 05	240,000	310	224,000	290	190,000	250	137,000	200						
239	9000	6 41	252,000	340	238,000	320	206,000	290	163,000	240						
252	9500	7.14	276,000	420	262,000	460	236,000	360	202,000	320	156,000	270				
265	10000	7 91	300,000	510	288,000	490	262,000	440	234,000	400	200,000	360	146,000	280		
279	10500	8 72			312,000	580	290,000	540	264,000	490	236,000	450	200,000	400	136,000	300
292	11000	9 57			336,000	680	314,000	630	290,000	590	266,000	550	236,000	500	199,000	440
305	11500	10 5					338,000	740	314,000	710	294,000	650	268,000	610	238,000	560
319	12000	11 4					360,000	870	340,000	820	320,000	770	298,000	730	272,000	680
332	12500	12 4							364,000	950	346,000	900	324,000	850	302,000	810
345	13000	13 4							388,000	1,100	370,000	1,050	352,000	990	330,000	950
358	13500	14 4							412,000	1,280	394,000	1,210	376,000	1,140	356,000	1,090
372	14000	15 5									420,000	1,380	402,000	1,310	382,000	1,250

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
292	11000	9 57	130,000	320												
305	11500	10 5	202,000	490	127,000	350										
319	12000	11 4	244,000	620	204,000	550	131,000	400								
332	12500	12 4	276,000	750	248,000	700	210,000	610	137,000	450						
345	13000	13 4	308,000	890	284,000	840	256,000	780	218,000	790	148,000	520				
358	13500	14 4	336,000	1,040	316,000	990	292,000	930	264,000	860	228,000	780	165,000	610		
372	14000	15 5	364,000	1,200	344,000	1,150	324,000	1,100	300,000	1,030	272,000	960	236,000	870		

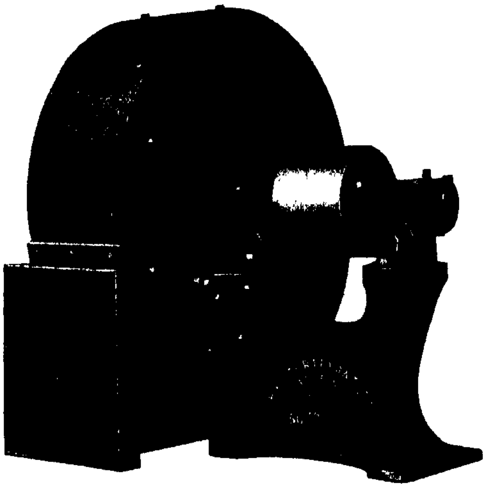
REVERSIBLE AND CONVERTIBLE STEEL PLATE EXHAUSTERS WITH MULTIBLADE WHEEL

Design 6

Dimensions, Capacities, Horse Powers



Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6. Inlet Side



Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6. Pulley Side

REVERSIBLE AND CONVERTIBLE STEEL PLATE EXHAUSTER WITH MULTIBLADE WHEEL—DESIGN 6

SPECIFICATIONS

There shall be furnished a......inch Design 6 Steel Plate Planing Mill Exhauster. It shall be Reversible and Convertible as to hand and discharge. The inlet shall be. . inches in diameter, and the outlet......inches by......inches.

Housing. The housing shall be made of steel plate side sheets of No. 13 gauge secured to cast-iron cone and inlet side plates by tap bolts threaded into an annular steel ring which is riveted to the inside of the steel plate side sheet.

The roundabout or scroll sheet shall be secured to the scroll angle by cap screws spaced five inches on centers.

Wheel. Blast wheel shall be of Multiblade type containing 18 floats, formed and curved in the direction of rotation. These floats shall be placed between annular side sheets. The wheel shall be carried upon a spider formed of steel T-arms cast into a hub. The wheel shall be......inches in diameter. It shall be accurately balanced during and after construction to insure perfect running balance.

Shaft. The shaft shall be made of the best open hearth steel turned and ground to size after keyways have been cut. It is to be . . .inches in diameter.

Bearings. The bearings are to be of the ring oiling, self aligning type, lined with Sturtevant white metal, and shall be of extra length to give ample bearing surface.

REVERSIBLE AND CONVERTIBLE STEEL PLATE EXHAUSTER WITH MULTIBLADE WHEEL—DESIGN 6

EXPLANATION OF SPECIFICATION REQUIREMENTS

Housing. The feature of this type is the ease with which it can be changed from any hand or discharge to any other hand or discharge. This is done by removing a few bolts, turning the casing around and then replacing the bolts.

The housing is so shaped as to give large capacity and high efficiency.

Wheel. The forwardly curved blades of the blast wheel give a comparatively high pressure for any given peripheral speed of the wheel. This fan is therefore suited for operation against high pressures.

Reversible and Convertible Steel Plate Exhausters with Multiblade Wheel
Design 6

EXPLANATION OF TABLES

These fans were originally designed for use in connection with cotton gin apparatus but they are suitable for any work within their capacities. The general explanation in the front of this book applies to the following tables.

Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

APPROXIMATE WEIGHTS

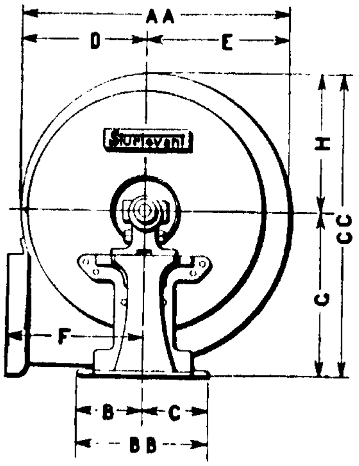
Size	Weight not packed
30	328
35	470
40	602
45	800
50	890

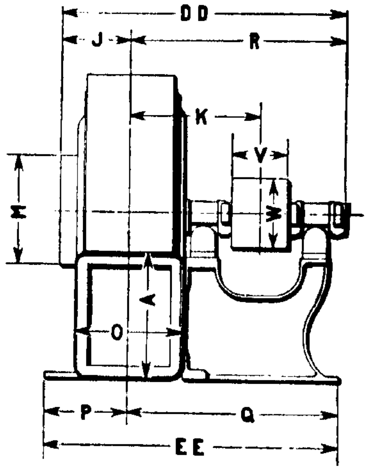
Single Inlet

Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

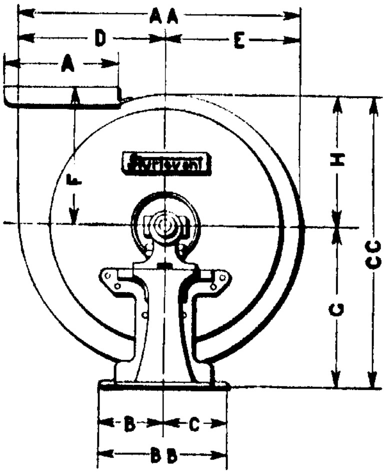
Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**

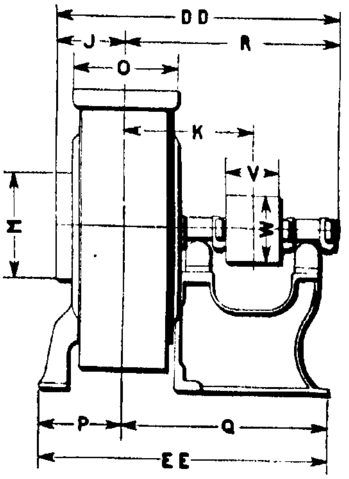




Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
30	12⅞	5	5	12¾	14¾	14	16⅝	13¼	7	13¼	11	11⅛	8⅜	21⅝	22⅛	5¼	7	27½	10	30⅜	29⅛	30¼	20¼	1⅜	¾	⅝
35	15¼	5½	5½	14⅛	17⅛	15¼	19 9/16	15¼	7¾	15 5/16	13	12¾	9½	21⅝	25⅞	6½	8	31¼	11	35 5/16	33⅜	31⅛	23⅝	1½	¾	⅝
40	16¼	6	6	16½	19½	17¼	23¼	18	7 13/16	16 3/16	15	14¼	10½	27	27⅞	7½	9	36	12	41¼	35 11/16	37½	27	1 11/16	¾	⅝
45	17⅛	6¾	6¾	18½	22	18⅜	25½	20¼	9¼	18 3/16	17	15⅞	11⅜	29 5/16	30¼	7½	10	25½	13½	45¾	40	40 15/16	30⅜	1 15/16	⅞	⅞
50	19⅜	7½	7½	20½	24½	21	28⅛	22½	10	20 1/16	19	17¼	12⅝	32 9/16	34	8½	10	45	15	50⅜	44	45 3/16	33¼	1 15/16	⅞	⅞

Up Blast Discharge





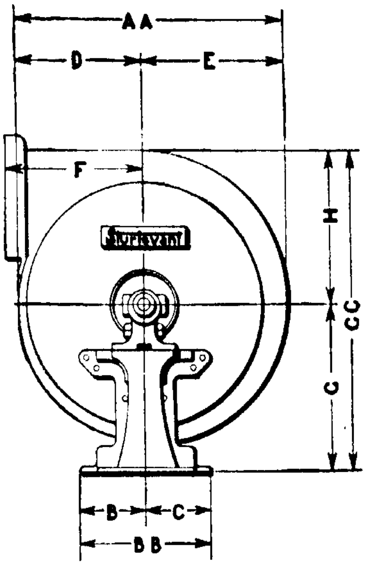
Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
30	12⅞	5	5	15¾	13¾	14	16⅝	12¾	7	13¼	11	11⅛	8⅜	21⅝	22⅛	5¼	7	29½	10	30⅜	29⅜	30¼	20¼	1⅜	¾	⅝
35	15¼	5½	5½	18½	15¾	15¾	19 9/16	14¾	7¾	15 5/16	13	12¾	9½	21⅝	25⅞	6½	8	31¼	11	35 5/16	33⅜	31⅛	23⅝	1½	¾	⅝
40	16¼	6	6	21	18	17¾	23¼	16½	7 13/16	16 3/16	15	14¼	10½	27	27⅞	7½	9	39	12	41¼	35 11/16	37½	27	1 11/16	¾	⅝
45	17⅛	6¾	6¾	23¾	20¾	18⅜	25½	18½	9¼	18 3/16	17	15⅞	11⅜	29 5/16	30¼	7½	10	30½	13½	45¾	40	40 15/16	30⅜	1 15/16	⅞	⅞
50	19⅜	7½	7½	26½	22½	21	28⅛	20½	10	20 1/16	19	17¼	12⅝	32 9/16	34	8½	10	49	15	50⅜	44	45 3/16	33¼	1 15/16	⅞	⅞

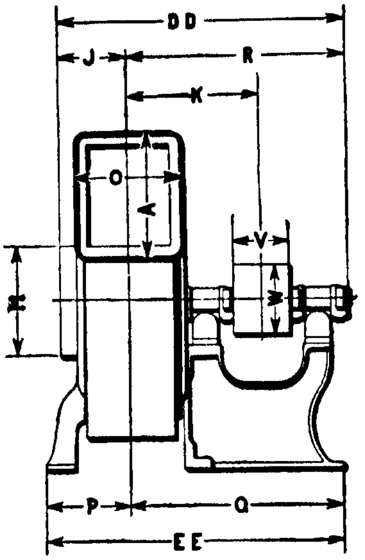
Single Inlet

Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

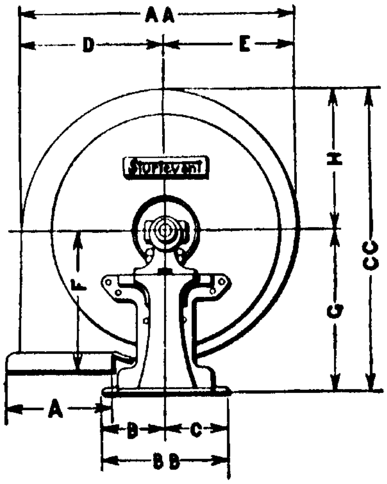
Full Housing **Top Horizontal Discharge** **Overhung Wheel**

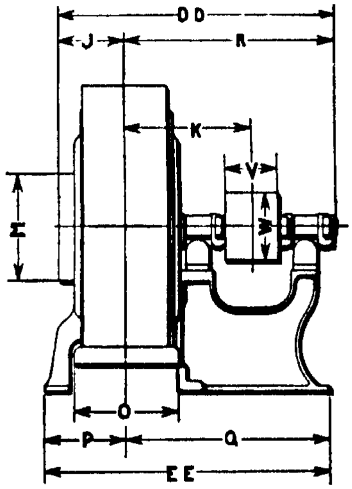




Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts	
																									Hanger	Fan
0	12 7/8	5	5	12 3/4	14 1/4	14	16 3/8	15 1/4	7	13 1/4	11	11 1/8	8 3/8	21 3/8	22 3/8	5 1/4	7	27 1/2	10	32 1/8	29 1/8	30 1/4	20 1/4	1 3/8	5/8	5/8
5	15 1/8	5 1/2	5 1/2	14 3/8	17 1/8	15 3/4	19 9/16	18 1/2	7 1/4	15 5/16	13	12 3/4	9 1/2	21 5/8	25 7/8	6 1/2	8	31 1/2	11	38 1/16	33 3/8	31 1/8	23 5/8	1 1/2	3/4	3/4
0	16 1/2	6	6	16 1/2	19 1/2	17 3/4	23 1/4	21	7 13/16	16 3/16	15	14 1/4	10 1/2	27	27 7/8	7 1/2	9	36	12	44 1/4	35 11/16	37 1/2	27	1 11/16	3/4	3/4
5	17 7/8	6 3/4	6 3/4	18 1/2	22	18 5/8	25 1/2	23 3/4	9 1/4	18 5/16	17	15 7/8	11 3/8	29 5/16	30 3/8	7 1/2	10	40 1/2	13 1/2	49 1/4	40	40 13/16	30 3/8	1 15/16	7/8	7/8
0.	19 3/8	7 1/2	7 1/2	20 1/2	24 1/2	21	28 1/8	26 1/2	10	20 1/16	19	17 1/4	12 3/8	32 9/16	34	8 1/2	10	45	15	54 5/8	44	45 3/16	33 3/4	1 15/16	7/8	7/8

Down Blast Discharge





Fan	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																									Hanger	Fan
30	12 7/8	5	5	15 3/4	13 3/4	14	16 3/8	14 3/4	7	13 1/4	11	11 1/8	8 3/8	21 3/8	22 3/8	5 1/4	7	29 1/2	10	30 1/8	29 1/8	30 1/4	20 1/4	1 3/8	5/8	5/8
35	15 1/8	5 1/2	5 1/2	18 1/2	15 3/4	15 3/4	19 9/16	17 1/8	7 1/4	15 5/16	13	12 3/4	9 1/2	21 5/8	25 7/8	6 1/2	8	34 1/4	11	36 11/16	33 3/8	31 1/8	23 5/8	1 1/2	3/4	3/4
40	16 1/2	6	6	21	18	17 3/4	23 1/4	19 1/2	7 13/16	16 3/16	15	14 1/4	10	27	27 7/8	7 1/2	9	39	12	41 1/4	35 11/16	37 1/2	27	1 11/16	3/4	3/4
45	17 7/8	6 3/4	6 3/4	23 3/4	20 1/4	18 5/8	25 1/2	22	9 1/4	18 5/16	17	15 7/8	11 3/8	29 5/16	30 3/8	7 1/2	10	44	13 1/2	45 3/4	40	40 13/16	30 3/8	1 15/16	7/8	7/8
50	19 3/8	7 1/2	7 1/2	26 1/4	22 1/2	21	28 1/8	24 1/2	10	20 1/16	19	17 1/4	12 3/8	32 9/16	34	8 1/2	10	49	15	50 1/4	44	45 3/16	33 3/4	1 15/16	7/8	7/8

Single Inlet

30" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
226	1200	0.135	198	0.007												
264	1400	0.184	467	0.020												
301	1600	0.240	617	0.034												
339	1800	0.303	739	0.052	460	0.032										
376	2000	0.375	838	0.072	679	0.059										
414	2200	0.454	937	0.097	933	0.088	562	0.059								
452	2400	0.540	1,030	0.130	954	0.120	787	0.098	398	0.053						
490	2600	0.634	1,120	0.165	1,070	0.155	953	0.140	728	0.105						
527	2800	0.736	1,210	0.215	1,170	0.200	1,080	0.185	934	0.160	670	0.115				
565	3000	0.843	1,300	0.270	1,270	0.245	1,210	0.235	1,100	0.215	920	0.180	613	0.125		
603	3200	0.959	1,390	0.330	1,360	0.300	1,320	0.29	1,240	0.275	1,100	0.245	914	0.200		
640	3400	1.09	1,480	0.405	1,450	0.365	1,420	0.35	1,360	0.335	1,260	0.320	1,120	0.275	920	0.230
678	3600	1.22	1,560	0.49	1,550	0.44	1,520	0.42	1,470	0.41	1,390	0.395	1,290	0.36	1,150	0.320
716	3800	1.35			1,640	0.53	1,620	0.50	1,570	0.44	1,510	0.48	1,430	0.45	1,300	0.41
753	4000	1.50			1,730	0.63	1,710	0.59	1,680	0.58	1,630	0.56	1,560	0.54	1,480	0.52
791	4200	1.66			1,820	0.71	1,800	0.69	1,770	0.67	1,740	0.66	1,680	0.65	1,620	0.63
829	4400	1.80			1,910	0.85	1,900	0.80	1,880	0.78	1,840	0.75	1,790	0.75	1,740	0.73
866	4600	1.98			2,050	0.99	1,990	0.93	1,960	0.89	1,930	0.88	1,900	0.87	1,850	0.85
904	4800	2.16			2,080	1.15	2,070	1.05	2,060	1.00	2,030	1.00	2,010	1.00	1,960	0.97
941	5000	2.34			2,180	1.3	2,160	1.25	2,150	1.15	2,130	1.15	2,100	1.15	2,070	1.1
989	5250	2.59					2,280	1.4	2,260	1.4	2,250	1.35	2,240	1.3	2,190	1.3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
678	3600	1.22	920	0.200												
716	3800	1.35	1,170	0.365												
753	4000	1.50	1,360	0.47												
791	4200	1.66	1,520	0.58	758	0.305										
829	4400	1.80	1,670	0.71	1,110	0.465										
866	4600	1.98	1,800	0.83	1,370	0.63										
904	4800	2.16	1,910	0.96	1,580	0.79	794	0.435								
941	5000	2.34	2,020	1.1	1,740	0.95	1,180	0.64								
989	5250	2.59	2,150	1.3	1,940	1.15	1,520	0.94								
1,038	5500	2.84			2,120	1.40	1,780	1.15	1,180	0.79						
1,082	5750	3.10			2,260	1.65	1,980	1.40	1,550	1.10						
1,130	6000	3.38			2,420	1.90	2,200	1.75	1,850	1.55						
1,179	6250	3.66			2,550	2.15	2,370	2.00	2,080	1.75	1,020	1.35				
1,223	6500	3.96			2,680	2.4	2,540	2.35	2,290	2.10	1,950	1.80	1,370	1.30		
1,271	6750	4.27					2,680	2.7	2,480	2.45	2,190	2.15	1,750	1.75	1,020	1.10
1,320	7000	4.59					2,820	3.0	2,660	2.85	2,400	2.55	2,070	2.05	1,560	1.70
1,411	7500	5.27					3,100	3.9	2,980	3.65	2,800	3.45	2,550	3.10	2,230	2.70
1,510	8000	6.00							3,260	4.5	3,130	4.3	2,960	4.15	2,720	3.75
1,601	8500	6.78									3,450	5.4	3,300	5.2	3,120	4.9
1,695	9000	7.60									3,690	6.4	3,610	6.3	3,470	6.2
1,790	9500	8.46											3,880	7.6	3,780	7.4
1,885	10000	9.37													4,060	8.8

Single Inlet

30" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.61 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1590	7500	5.27	1,770	2.20	947	1.35										
1698	8000	6.00	2,410	3.35	2,000	2.75	1,390	2.05								
1802	8500	6.78	2,900	4.55	2,640	4.1	2,250	3.55	1,790	2.9						
1910	9000	7.60	3,290	5.8	3,080	5.4	2,810	4.95	2,500	4.4	1,530	2.85				
2020	9500	8.46	3,640	7.2	3,480	6.9	3,260	6.4	3,080	6.0	2,430	4.75	1,260	2.85		
2120	10000	9.37	3,950	8.5	3,820	8.4	3,670	8.0	3,490	7.6	3,010	6.5	2,360	5.2		
2220	10500	10.3	4,230	10	4,130	9.9	4,020	9.6	3,870	9.3	3,510	8.5	3,030	7.3	2,320	5.7
2330	11000	11.3	4,520	12	4,430	11.5	4,330	11.5	4,220	11	3,920	10.5	3,550	9.3	3,030	8.0
2430	11500	12.4	4,750	14	4,700	13.5	4,620	13.5	4,530	13	4,290	12.5	3,990	11.5	3,610	10.5
2540	12000	13.5	5,000	16	4,950	15.5	4,890	15.5	4,830	15	4,630	14.5	4,380	13.5	4,070	12.5
2650	12500	14.7	5,250	18	5,200	18	5,170	17.5	5,120	17	4,950	17.0	4,730	16.0	4,470	15.0
2760	13000	15.8	5,480	20	5,460	20	5,430	20	5,410	19.5	5,230	19.0	5,060	18.5	4,850	18.0
2870	13500	17.1							5,680	22	5,530	21.5	5,360	21	5,200	20.5
2970	14000	18.4							5,940	25	5,830	24	5,640	24	5,500	23.5
3080	14500	19.7							6,240	29	6,120	28	5,930	27	5,780	26
3180	15000	21.1							6,470	32	6,400	31	6,230	30	6,070	30

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
2070	11000	11.3	2,320	6.2												
2170	11500	12.4	3,090	9.0	2,380	7.1										
2260	12000	13.5	3,670	11.5	3,160	9.8	2,470	8.0								
2350	12500	14.7	4,150	14.0	3,770	13.0	3,270	11.0	2,570	9.0	1,460	5.9				
2450	13000	15.8	4,550	16.5	4,250	15.5	3,890	14.5	3,370	12.5	2,740	10.5	1,730	7.3		
2540	13500	17.1	4,980	19.5	4,700	18.5	4,370	17.5	3,980	16	3,530	14.0	2,910	12.0	2,040	9.3
2640	14000	18.4	5,320	22.5	5,080	22	4,820	20.5	4,500	19	4,130	17.5	3,090	16.0	3,100	13.5
2730	14500	19.7	5,650	26	5,440	25	5,230	24	4,950	23	4,650	21	4,280	19.5	3,840	17.5
2830	15000	21.1	5,940	29	5,780	28	5,610	28	5,370	26	5,130	25	4,800	23.5	4,440	22

Single Inlet

35" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
194	1200	0.135	287	0.010												
226	1400	0.184	674	0.029												
258	1600	0.240	893	0.050												
290	1800	0.303	1,060	0.075	665	0.047										
323	2000	0.375	1,210	0.105	983	0.085										
355	2200	0.454	1,350	0.140	1,200	0.125	813	0.086								
387	2400	0.540	1,490	0.185	1,380	0.175	1,140	0.140	574	0.077						
420	2600	0.634	1,620	0.240	1,540	0.225	1,380	0.205	1,050	0.155						
451	2800	0.736	1,760	0.310	1,690	0.285	1,570	0.27	1,350	0.230	968	0.165				
483	3000	0.843	1,880	0.385	1,840	0.355	1,750	0.31	1,590	0.315	1,330	0.26	888	0.18		
516	3200	0.959	2,010	0.48	1,970	0.435	1,900	0.42	1,790	0.400	1,590	0.35	1,320	0.29		
548	3400	1.085	2,140	0.59	2,100	0.53	2,050	0.51	1,970	0.485	1,820	0.46	1,620	0.40	1,330	0.335
581	3600	1.215	2,260	0.71	2,240	0.64	2,190	0.61	2,120	0.60	2,020	0.57	1,860	0.52	1,660	0.465
613	3800	1.352			2,380	0.76	2,340	0.73	2,280	0.71	2,190	0.69	2,070	0.65	1,890	0.59
645	4000	1.500			2,500	0.91	2,470	0.86	2,430	0.84	2,360	0.82	2,260	0.78	2,140	0.75
678	4200	1.655			2,630	1.05	2,610	1.00	2,560	0.97	2,510	0.96	2,420	0.93	2,340	0.91
710	4400	1.812			2,760	1.25	2,750	1.15	2,710	1.15	2,660	1.10	2,590	1.10	2,520	1.05
743	4600	1.984			2,890	1.45	2,880	1.35	2,830	1.3	2,800	1.25	2,750	1.25	2,680	1.25
775	4800	2.16			3,010	1.65	3,000	1.55	2,970	1.5	2,940	1.45	2,900	1.45	2,840	1.4
806	5000	2.34			3,150	1.9	3,130	1.8	3,110	1.7	3,080	1.70	3,040	1.65	2,990	1.6
846	5250	2.59					3,290	2	3,280	2	3,250	1.95	3,240	1.9	3,170	1.9

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
581	3600	1.215	1,330	0.375												
613	3800	1.352	1,690	0.53												
645	4000	1.500	1,970	0.68												
678	4200	1.655	2,190	0.84	1,100	0.44										
710	4400	1.812	2,420	1.00	1,610	0.68										
743	4600	1.984	2,600	1.20	1,980	0.91										
775	4800	2.16	2,770	1.40	2,280	1.15	1,150	0.62								
806	5000	2.34	2,930	1.60	2,520	1.35	1,710	0.93								
846	5250	2.59	3,110	1.85	2,810	1.70	2,190	1.30								
887	5500	2.84			3,060	2.05	2,570	1.70	1,700	1.15						
928	5750	3.10			3,260	2.35	2,870	2.05	2,240	1.60						
966	6000	3.38			3,500	2.75	3,180	2.50	2,670	2.20						
1008	6250	3.66			3,690	3.10	3,420	2.90	3,010	2.55	2,340	2.00				
1049	6500	3.96			3,870	3.45	3,670	3.35	3,310	3.05	2,820	2.55	1,980	1.85		
1089	6750	4.27					3,880	3.90	3,590	3.55	3,160	3.10	2,530	2.50	1,480	1.60
1130	7000	4.59					4,070	4.35	3,830	4.7	3,460	3.70	2,980	3.15	2,230	2.45
1210	7500	5.27					4,480	5.4	4,300	5.3	4,030	4.95	3,680	4.5	3,210	3.9
1290	8000	6.00							4,710	6.5	4,510	6.2	4,270	6.0	3,920	5.4
1371	8500	6.78									4,950	7.8	4,760	7.5	4,500	7.1
1450	9000	7.60									5,320	9.3	5,200	9.1	5,000	8.9
1531	9500	8.46											5,600	11	5,450	10.5
1610	10000	9.37													5,860	12.5

Single Inlet

35" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 4½" Water 2.61 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1362	7500	5.27	2,560	3.15	1,370	1.95										
1453	8000	6.00	3,480	4.8	2,890	4.0	2,010	3.0								
1545	8500	6.78	4,200	6.6	3,810	6.0	3,260	5.1	2,590	4.2						
1637	9000	7.60	4,760	8.4	4,460	7.9	4,070	7.2	3,630	6.4	2,210	4.15				
1728	9500	8.46	5,260	10.5	5,030	9.9	4,720	9.3	4,430	8.7	3,520	6.9	1,830	4.1		
1819	10000	9.37	5,710	12.5	5,520	12.0	5,320	10.5	5,050	11.0	4,350	9.5	3,410	7.5		
1910	10500	10.3	6,120	14.5	5,980	14.5	5,810	14.0	5,600	13.5	5,080	12.0	4,380	10.5	3,370	8.3
2000	11000	11.3	6,530	17	6,410	17.0	6,270	16.5	6,110	16	5,670	15.0	5,130	13.5	4,400	11.5
2090	11500	12.4	6,870	20	6,790	19.5	6,690	19.0	6,570	19	6,210	18.0	5,780	16.5	5,220	15.0
2180	12000	13.5	7,230	23	7,150	22.5	7,060	22.5	7,000	22	6,710	21.0	6,340	20	5,890	18.5
2270	12500	14.7	7,580	26	7,520	26	7,400	25	7,400	25	7,170	21.5	6,840	23	6,460	22
2360	13000	15.8	7,910	29	7,900	29	7,850	29	7,820	28	7,570	28	7,320	27	7,030	26
2450	13500	17.1							8,200	32	8,000	31	7,740	31	7,520	30
2550	14000	18.4							8,600	36	8,430	35	8,160	35	7,950	34
2640	14500	19.7							9,000	41	8,850	40	8,560	39	8,370	38
2730	15000	21.1							9,430	46	9,250	15	9,000	44	8,800	43

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1775	11000	11.3	3,350	9.0												
1855	11500	12.4	4,470	13.0	3,440	10.0										
1938	12000	13.5	5,320	16.5	4,570	14.0	3,570	11.5								
2020	12500	14.7	6,000	20.5	5,440	18.5	4,720	16.0	3,720	13.1	2,110	8.5				
2100	13000	15.8	6,590	21	6,150	22.5	5,630	20.5	4,870	18	3,900	15.0	2,510	10.5		
2180	13500	17.1	7,170	28	6,790	27	6,330	25	5,770	23	5,110	20.5	4,210	17	2,050	13.5
2260	14000	18.4	7,680	33	7,340	31	6,960	30	6,500	28	5,970	26	5,330	23	4,480	19.5
2340	14500	19.7	8,160	38	7,860	36	7,550	35	7,160	33	6,710	31	6,190	28	5,560	25
2420	15000	21.1	8,600	42	8,350	41	8,100	40	7,760	38	7,410	36	6,940	31	6,420	32

Single Inlet

40" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
170	1200	0.135	357	0.012												
198	1400	0.184	839	0.036												
226	1600	0.240	1,110	0.062												
254	1800	0.303	1,320	0.093	828	0.058										
282	2000	0.375	1,510	0.130	1,230	0.105										
310	2200	0.454	1,690	0.175	1,500	0.160	1,010	0.105								
339	2400	0.540	1,850	0.230	1,720	0.215	1,420	0.180	715	0.096						
367	2600	0.634	2,020	0.300	1,920	0.28	1,720	0.255	1,310	0.19						
395	2800	0.736	2,180	0.385	2,110	0.36	1,950	0.335	1,680	0.29	1,200	0.21				
423	3000	0.843	2,340	0.48	2,290	0.44	2,180	0.425	1,980	0.39	1,660	0.32	1,100	0.220		
452	3200	0.959	2,500	0.60	2,460	0.51	2,370	0.53	2,230	0.50	1,980	0.44	1,650	0.365		
481	3400	1.09	2,660	0.73	2,620	0.66	2,560	0.63	2,450	0.61	2,270	0.57	2,020	0.50	1,600	0.415
509	3600	1.22	2,820	0.88	2,790	0.80	2,730	0.76	2,640	0.74	2,510	0.71	2,320	0.65	2,070	0.58
537	3800	1.35			2,960	0.95	2,910	0.90	2,840	0.89	2,730	0.86	2,580	0.81	2,350	0.74
565	4000	1.50			3,120	1.15	3,080	1.05	3,020	1.05	2,930	1.00	2,820	0.97	2,660	0.93
594	4200	1.66			3,280	1.35	3,250	1.25	3,190	1.20	3,130	1.20	3,020	1.15	2,920	1.15
621	4400	1.80			3,430	1.55	3,420	1.45	3,380	1.40	3,320	1.35	3,230	1.35	3,140	1.30
650	4600	1.98			3,590	1.80	3,580	1.7	3,530	1.60	3,480	1.6	3,420	1.55	3,340	1.55
679	4800	2.16			3,740	2.05	3,740	1.9	3,700	1.85	3,660	1.8	3,620	1.80	3,530	1.75
707	5000	2.34			3,920	2.35	3,900	2.2	3,880	2.1	3,830	2.1	3,790	2.05	3,720	2.00
741	5250	2.59					4,100	2.5	4,080	2.5	4,050	2.4	4,030	2.35	3,950	2.35

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
509	3600	1.22	1,660	0.47												
537	3800	1.35	2,100	0.66												
565	4000	1.50	2,150	0.85												
594	4200	1.66	2,730	1.05	1,360	0.55										
621	4400	1.80	3,020	1.25	2,000	0.84										
650	4600	1.98	3,210	1.50	2,470	1.15										
679	4800	2.16	3,440	1.75	2,840	1.40	1,430	0.77								
707	5000	2.34	3,650	1.95	3,140	1.70	2,130	1.15								
741	5250	2.59	3,880	2.3	3,500	2.10	2,730	1.65								
777	5500	2.84			3,810	2.55	3,200	2.80	2,110	1.40						
811	5750	3.10			4,070	2.95	3,570	2.55	2,790	2.00						
847	6000	3.38			4,360	3.4	3,900	3.1	3,320	2.75						
883	6250	3.66			4,600	3.9	4,260	3.6	3,740	3.15	2,910	2.45				
919	6500	3.98			4,830	4.3	4,560	4.2	4,120	3.80	3,520	3.2	2,470	2.35		
954	6750	4.27					4,820	4.8	4,460	4.45	3,940	3.9	3,150	3.10	1,840	2.00
988	7000	4.59					5,060	5.4	4,770	5.1	4,320	4.6	3,710	3.95	2,800	3.05
1060	7500	5.27					5,580	6.8	5,350	6.5	5,030	6.2	4,580	5.6	4,000	4.9
1130	8000	6.00							5,860	8.1	5,620	7.7	5,320	7.4	4,890	6.8
1200	8500	6.78									6,160	9.7	5,920	8.4	5,610	8.8
1271	9000	7.00									6,630	11.5	6,480	11.5	6,230	11.0
1341	9500	8.46											6,980	13.5	6,780	13.5
1412	10000	9.37													7,300	16

Single Inlet

40" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.61 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1193	7500	5 27	3,180	3 9	1,700	2 4										
1273	8000	6 00	4,330	6 0	3,590	5 0	2.500	3 7								
1352	8500	6 78	5,230	8 2	4,740	7 4	4,050	6 4	3,220	5 2						
1433	9000	7 60	5,920	10 5	5,550	9 8	5,060	9 0	4,510	8.0	2,750	5 2				
1511	9500	8 46	6,550	13 0	6,260	12 5	5,880	11 5	5,500	11.0	4,370	8.6	2,270	5 1		
1591	10000	9 37	7,110	15 5	6,860	15 0	6,610	14 5	6,280	13.5	5,410	11 5	4,260	9 3		
1670	10500	10 3	7,620	18 0	7,440	18 0	7,230	17.5	6,960	16 5	6,320	15 0	5,450	13 0	4,190	10.5
1750	11000	11 3	8,100	21 5	7,970	21 0	7,800	20 5	7,600	20.0	7,050	18 5	6,380	17 0	5,480	14.5
1830	11500	12 4	8,550	25	8,450	24 5	8,310	24	8,170	23.5	7,720	22.5	7,170	20 5	6,500	18 5
1910	12000	13 5	9,000	29	8,900	28	8,780	28	8,700	27	8,340	26	7,870	24.5	7,320	23
1990	12500	14 7	9,420	32	9,350	32	9,290	31	9,200	31	8,910	30	8,510	28	8,050	27
2070	13000	15 8	9,850	36	9,830	36	9 770	36	9,700	35	9,410	34	9,100	33	8,730	32
2150	13500	17 1							10,200	40	9,950	39	9,650	38	9,330	37
2230	14000	18 4							10,700	44	10,500	34	10,200	43	9,880	42
2310	14500	19 7							11,200	52	11,200	50	10,700	49	10,400	47
2490	15000	21 1							11,700	56	11,500	56	11,200	54	10,900	54

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1555	11000	11 3	4,170	11 0												
1627	11500	12 4	5,560	16 0	4,270	12 5										
1696	12000	13 5	6,590	20 5	5,680	17.5	4,430	14 5								
1768	12500	14 7	7,460	25	6,760	23	5,870	20	4,630	16 0	2 620	10.5				
1840	13000	15 8	8,180	30	7,640	28	6,990	26	6,060	22.5	4,920	18.5	3,110	13		
1910	13500	17.1	8,900	35	8,440	34	7,860	31	7,170	28	6,350	25	5,220	21	3,600	16.5
1980	14000	18 4	9,540	41	9,120	39	8,650	37	8,070	35	7,420	32	6,620	28	5,560	24
2050	14500	19 7	10,200	47	9,770	45	9,390	43	8,910	41	8,330	38	7,680	35	6,900	32
2120	15000	21 1	10,700	52	10,400	50	10,000	50	9,650	47	9,200	45	8,620	42	7,900	39

Single Inlet

45" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch	
151	1200	0.135	457	0.015												
176	1400	0.184	1,075	0.046												
201	1600	0.240	1,420	0.079												
226	1800	0.303	1,690	0.120	1,060	0.074										
251	2000	0.375	1,930	0.165	1,570	0.135										
276	2200	0.454	2,160	0.225	1,920	0.205	1,300	0.135								
301	2400	0.540	2,370	0.295	2,200	0.275	1,810	0.225	915	0.125						
326	2600	0.634	2,580	0.385	2,450	0.360	2,200	0.325	1,680	0.245						
351	2800	0.736	2,800	0.49	2,700	0.455	2,500	0.425	2,150	0.36	1,540	0.265				
377	3000	0.843	2,990	0.62	2,940	0.57	2,780	0.545	2,530	0.50	2,120	0.415	1,410	0.285		
401	3200	0.959	3,200	0.76	3,140	0.69	3,030	0.67	2,840	0.61	2,540	0.56	2,100	0.465		
426	3400	1.085	3,410	0.93	3,350	0.84	3,260	0.81	3,140	0.78	2,910	0.73	2,580	0.64	2,120	0.53
452	3600	1.215	3,600	1.15	3,570	1.00	3,500	0.97	3,380	0.95	3,220	0.91	2,960	0.83	2,640	0.74
477	3800	1.352			3,780	1.20	3,720	1.15	3,630	1.15	3,500	1.10	3,300	1.05	3,000	0.94
503	4000	1.500			3,900	1.45	3,930	1.35	3,860	1.35	3,750	1.30	3,600	1.25	3,410	1.20
527	4200	1.655			4,200	1.70	4,150	1.60	4,080	1.55	4,000	1.50	3,860	1.50	3,730	1.45
553	4400	1.812			4,390	1.95	4,380	1.85	4,320	1.80	4,240	1.75	4,130	1.75	4,020	1.70
578	4600	1.984			4,600	2.3	4,580	2.15	4,520	2.05	4,460	2.00	4,380	2.0	4,270	1.95
603	4800	2.16			4,790	2.6	4,780	2.45	4,740	2.35	4,680	2.30	4,630	2.3	4,520	2.25
628	5000	2.34			5,020	3	4,980	2.85	4,960	2.70	4,900	2.70	4,850	2.6	4,770	2.55
660	5250	2.59					5,250	3.2	5,220	3.15	5,170	3.1	5,150	3	5,060	3

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. pe sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
452	3600	1.215	2,120	0.60												
477	3800	1.352	2,690	0.84												
503	4000	1.500	3,130	1.10												
527	4200	1.655	3,490	1.35	1,750	0.70										
553	4400	1.812	3,850	1.65	2,560	1.10										
578	4600	1.984	4,140	1.90	3,160	1.45										
603	4800	2.16	4,410	2.20	3,630	1.80	1,830	0.09								
628	5000	2.34	4,670	2.55	4,020	2.20	2,720	1.50								
660	5250	2.59	4,900	2.95	4,480	2.70	3,490	2.10								
691	5500	2.84			4,880	3.25	4,100	2.70	2,700	1.80						
723	5750	3.10			5,210	3.75	4,570	3.25	3,570	2.55						
754	6000	3.38			5,550	4.4	5,070	4.00	4,250	3.55						
785	6250	3.66			5,880	5.0	5,470	4.65	4,790	4.05	3,730	3.15				
816	6500	3.96			6,180	5.5	5,850	5.4	5,270	4.85	4,500	4.1	3,160	3.0		
849	6750	4.27					6,180	6.2	5,760	5.7	5,050	5.0	4,030	4.0	2,360	2.55
880	7000	4.59					6,500	6.9	6,100	6.5	5,530	5.9	4,750	5.1	3,590	3.9
942	7500	5.27					7,160	8.7	6,850	8.4	6,450	7.9	5,880	7.2	5,130	6.3
1002	8000	6.00							7,500	10.5	7,220	9.9	6,820	9.6	6,280	8.7
1069	8500	6.78									7,900	12.5	7,600	12.0	7,190	11.5
1131	9000	7.60									8,500	15	8,300	14.5	8,000	14
1194	9500	8.46											8,940	17.5	8,700	17
1257	10000	9.37													9,350	20

Single Inlet

45" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot against Continuously Maintained Resistances

P.M.	Tip Speed F.P.M.	S.N.D. In Inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
060	7500	5 27	4,070	5.0	2,180	3 1										
131	8000	6 00	5,540	7.7	4,590	6.4	3,200	4.75								
201	8500	6 78	6,690	10.5	6,070	9 5	5,190	8.2	4,130	6.6						
273	9000	7 60	7 570	13.5	7,100	12 5	6,480	11 5	5,770	10.0	3,520	6 6				
343	9500	8 46	8,380	16 5	8,010	16.0	7,520	15.0	7,040	14 0	5,600	11.0	2,910	6 6		
414	10000	9 37	9,100	19 5	8,790	19.5	8,460	18.5	8,040	17 5	6,930	15.0	5,430	12.0		
482	10500	10 3	9,750	23	9,530	23	9,250	22	8,910	21 5	8,000	19.5	6,980	17 0	5,360	13 0
551	11000	11 3	10,400	27	10,200	27	9,980	26	9,720	26	9,030	24	8,100	21.5	7,000	18.5
621	11500	12 4	10,900	32	10,800	31	10,600	31	10,500	30	9,880	29	9,180	26	8,310	24
695	12000	13 5	11,500	37	11,400	36	11,200	36	11,100	35	10,700	34	10,100	32	9,370	29
763	12500	14 7	12,100	41	12,000	41	11,900	40	11,800	40	11,400	39	10,900	36	10,300	35
835	13000	15 8	12,600	47	12 500	46	12,500	46	12,300	45	12,000	44	11,600	43	11,200	41
908	13500	17.1							13,000	52	12,700	50	12,300	49	11,900	47
978	14000	18.4							13,700	56	13,400	56	13,000	56	12,700	54
050	14500	19.7							14,300	66	14,100	64	13,600	62	13,300	60
120	15000	21 1							14,900	74	14,800	72	14,300	70	14,000	68

P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
382	11000	11.3	5,330	14.5												
446	11500	12 4	7,120	20.5	5,470	16.0										
510	12000	13 5	8,140	26	7,270	22.5	5,670	18								
570	12500	14 7	9,550	32	8,670	29	7,510	25	5,930	20.5	3,350	13.5				
635	13000	15 8	10,500	38	9,780	36	8,990	33	7,750	29	6,300	24	3,000	17		
700	13500	17 1	11,400	45	10,800	43	10,100	40	9,180	36	8,120	32	6,700	27	4,680	21
760	14000	18 4	12,200	52	11,700	50	11,100	47	10,400	44	9,500	41	8,480	36	7,130	31
820	14500	19.7	13,000	60	12,500	58	12,000	56	11,400	52	10,700	49	9,840	45	8,840	40
885	15000	21.1	13,700	66	13,300	64	12,900	64	12,300	60	11,800	58	11,000	54	10,200	50

Single Inlet

50" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M. Static Pressure ⅛" Water .072 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¼" Water .145 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅜" Water .217 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ½" Water .289 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅝" Water .361 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ¾" Water .434 ozs. per sq. inch	H. P.	Volume C.F.M. Static Pressure ⅞' Water .506 ozs. per sq. inch	H. P.
136	1200	0.135	550	0.018												
158	1400	0.184	1,300	0.056												
181	1600	0.240	1,730	0.096												
204	1800	0.303	2,050	0.145	1,290	0.091										
226	2000	0.375	2,350	0.200	1,900	0.165										
249	2200	0.454	2,620	0.270	2,330	0.245	1,570	0.165								
272	2400	0.540	2,880	0.360	2,670	0.335	2,200	0.275	1,110	0.15						
294	2600	0.634	3,140	0.465	2,980	0.45	2,670	0.395	2,040	0.30						
316	2800	0.736	3,400	0.60	3,270	0.55	3,020	0.52	2,610	0.45	1,880	0.325				
339	3000	0.843	3,640	0.75	3,570	0.69	3,380	0.66	3,080	0.61	2,570	0.50	1,720	0.35		
362	3200	0.959	3,890	0.93	3,830	0.84	3,680	0.82	3,470	0.77	3,070	0.68	2,560	0.56		
384	3400	1.09	4,140	1.15	4,070	1.05	3,970	0.99	3,810	0.91	3,540	0.89	3,140	0.78	2,570	0.65
406	3600	1.22	4,370	1.35	4,310	1.25	4,210	1.20	4,110	1.15	3,910	1.10	3,600	1.00	3,220	0.90
430	3800	1.35			4,600	1.45	4,530	1.40	4,410	1.40	4,230	1.35	4,000	1.30	3,570	1.15
452	4000	1.50			4,850	1.75	4,780	1.65	4,700	1.60	4,560	1.60	4,380	1.50	4,140	1.45
474	4200	1.66			5,100	2.05	5,050	1.95	4,970	1.85	4,860	1.85	4,700	1.80	4,530	1.75
497	4400	1.80			5,330	2.40	5,320	2.26	5,250	2.20	5,160	2.10	5,020	2.10	4,870	2.05
520	4600	1.98			5,590	2.75	5,570	2.60	5,470	2.50	5,420	2.45	5,320	2.40	5,190	2.35
542	4800	2.16			5,820	3.2	5,800	3.00	5,750	2.85	5,680	2.80	5,620	2.80	5,490	2.70
565	5000	2.34			6,080	3.7	6,050	3.45	6,020	3.30	5,960	3.30	5,880	3.15	5,790	3.10
593	5250	2.59					6,380	3.9	6,340	3.85	6,300	3.75	6,270	3.7	6,150	3.65

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
406	3600	1.22	2,580	0.73												
430	3800	1.35	3,260	1.05												
452	4000	1.50	3,800	1.30												
474	4200	1.66	4,240	1.65	2,120	0.86										
497	4400	1.80	4,680	2.00	3,120	1.30										
520	4600	1.98	5,030	2.30	3,830	1.75										
542	4800	2.16	5,350	2.70	4,400	2.20	2,220	1.20								
565	5000	2.34	5,660	3.05	4,890	2.65	3,310	1.80								
593	5250	2.59	6,020	3.6	5,430	3.30	4,240	2.50								
621	5500	2.84			5,920	3.95	4,980	3.25	3,280	2.20						
650	5750	3.10			6,330	4.55	5,550	3.95	4,340	3.10						
678	6000	3.38			6,770	5.3	6,150	4.85	5,160	4.30						
706	6250	3.66			7,160	6.1	6,630	5.6	5,810	4.95	4,530	3.85				
734	6500	3.96			7,520	6.7	7,100	6.5	6,400	5.9	5,470	5.0	3,840	3.60		
763	6750	4.27					7,500	7.5	6,950	6.9	6,120	6.0	4,900	4.85	2,860	3.1
791	7000	4.59					7,890	8.4	7,410	7.9	6,710	7.1	5,780	6.1	4,350	4.7
847	7500	5.27					8,690	10.5	8,320	10.0	7,820	9.6	7,110	8.7	6,230	7.6
904	8000	6.00							9,110	12.5	8,750	12	8,270	11.5	7,600	10.5
961	8500	6.78									9,570	15	9,220	14.5	8,700	13.5
1017	9000	7.60									10,300	18	10,100	17.5	9,700	17.0
1071	9500	8.46											10,900	21	10,500	20.5
1130	10000	9.37													11,300	24.5

Single Inlet

50" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

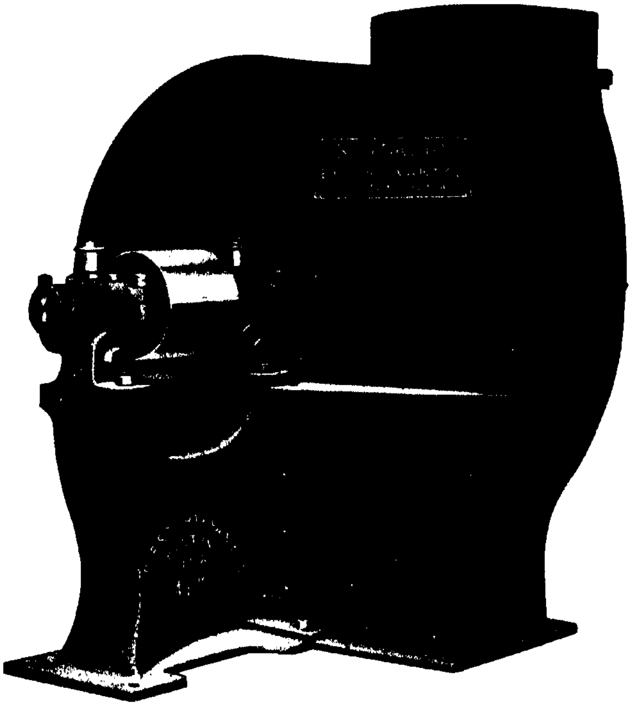
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
955	7500	5.27	4,940	6.1	2,650	3.7										
1019	8000	6.00	6,720	9.3	5,580	7.7	3,880	5.8								
1081	8500	6.78	8,110	13	7,360	11.5	6,300	9.9	5,010	8.1						
1147	9000	7.60	9,190	16	8,620	15.0	7,850	14.0	7,000	12.5	4,270	8.0				
1210	9500	8.46	10,200	20	9,730	19.0	9,130	18.0	8,540	16.5	6,790	13.5	3,530	8.0		
1273	10000	9.37	11,000	24	10,700	23.5	10,300	22.5	9,750	21	8,400	18.0	6,580	14.5		
1338	10500	10.3	11,800	28	11,600	28	11,200	27	10,800	26	9,800	23.5	8,450	20.5	6,500	16.0
1402	11000	11.3	12,600	33	12,400	33	12,100	32	11,800	31	11,000	29	9,910	26	8,500	22.5
1465	11500	12.4	13,300	39	13,100	38	12,900	37	12,700	37	12,000	35	11,100	32	10,100	29
1528	12000	13.5	14,000	44	13,800	44	13,600	43	13,500	42	13,000	41	12,200	38	11,400	36
1592	12500	14.7	14,600	50	14,500	50	14,400	49	14,300	48	13,900	47	13,200	44	12,500	43
1655	13000	15.8	15,300	56	15,200	56	15,100	56	15,100	54	14,600	54	14,100	52	13,500	50
1720	13500	17.1							15,800	62	15,400	60	15,000	60	14,500	58
1782	14000	18.4							16,600	68	16,300	68	15,800	68	15,400	66
1845	14500	19.7							17,400	80	17,100	78	16,600	76	16,200	74
1910	15000	21.1							18,100	90	17,900	88	17,400	84	17,000	84

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1248	11000	11.3	6,470	17.5												
1302	11500	12.4	8,630	25	6,630	19.5										
1360	12000	13.5	10,300	32	8,830	27	6,880	22								
1415	12500	14.7	11,600	39	10,500	36	9,110	31	7,190	25	4,070	16.5				
1470	13000	15.8	12,700	47	11,900	44	10,900	40	9,410	35	7,640	29	4,840	20.5		
1530	13500	17.1	13,800	54	13,100	52	12,200	49	11,100	44	9,850	39	8,130	33	5,690	26
1585	14000	18.4	14,800	64	14,200	60	13,500	58	12,500	54	11,500	49	10,300	44	8,650	38
1640	14500	19.7	15,800	72	15,200	70	14,600	67	13,800	64	12,900	60	11,900	54	10,700	49
1700	15000	21.1	16,600	80	16,100	78	15,600	76	15,000	74	14,300	70	13,400	66	12,400	60

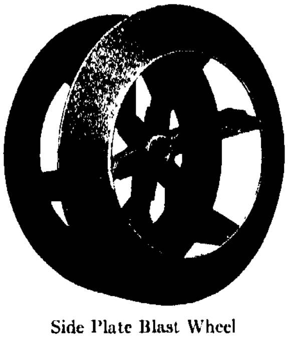
STEEL PLATE PLANING MILL EXHAUSTER

Design 1

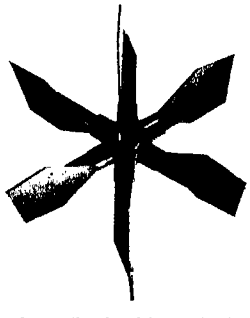
Dimensions, Capacities, Horse Powers



Steel Plate Planing Mill Exhauster — Design 1



Side Plate Blast Wheel
(For Ordinary Work)



Long Shaving Blast Wheel
(For Handling Long Material)

STEEL PLATE PLANING MILL EXHAUSTER—DESIGN 1

SPECIFICATIONS

There shall be furnished a......inch, Design 1 Sturtevant Steel Plate Planing Mill Exhauster to be.........hand,........ discharge, with pulley......inches in diameter by......inches face. The blast wheel shall be......inches in diameter containing floats of......gauge. The floats shall be securely riveted to steel T-arms cast into the hub.

The housing shall have side sheets of........gauge and a roundabout sheet of........gauge. The roundabout sheet is to be secured to the scroll angle by tap bolts ⅜-inch, and spaced five inches on centers. The inlet shall be......inches in diameter. The outlets are cylindrical and are cast on fans 30 to 80 inches inclusive except the down blast. In the down blast fan the outlet is part of the base casting. In sizes 90 to 100 inches fans the outlets are rectangular and built of angle iron. The cut-off piece shall be made of a sheet so built and so attached to the spiral sheet as to limit its vibration and therefore reduce noise.

Shaft. The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

Bearings. The bearing shall be lined with the best quality babbitt, containing upwards of 85 per cent. tin, bored and scraped to size.

STEEL PLATE PLANING MILL EXHAUSTER—DESIGN 1

EXPLANATION OF SPECIFICATION REQUIREMENTS

Wearing Qualities. On account of the severe service to which Planing Mill Exhausters are subjected, the casing and wheel of this fan are of exceptionally heavy gauge 'so as to give many years of satisfactory service. Furthermore a great deal depends upon the shaft and bearings, and a shaft which is carefully turned and ground to gauge, and which runs in bearings containing a very high quality babbitt metal, is bound to show its worth.

Steel Plate Planing Mill Exhausters
Design 1

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Steel Plate Planing Mill Exhauster
Design 1

APPROXIMATE WEIGHTS

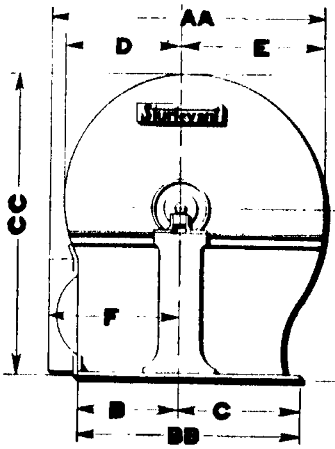
Size	Single Width	Double Width
30	300	510
35	435	750
40	550	1000
45	760	1260
50	970	1630
55	1185	1940
60	1390	2300
70	2000	3450
80	2960	4900
90	3100	5900
100	8250	6500

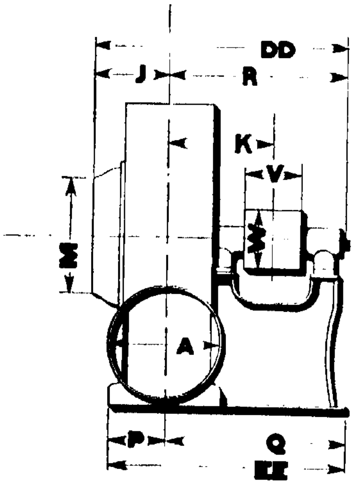
Single Inlet

Steel Plate Planing Mill Exhauster
Design 1

Single Width

Full Housing | **Bottom Horizontal Discharge** | **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Hanger
30	11	10	11⅜	11½	11½	13½	16¾	13	8¼	12	11	6 7/16	20½	21	5	5¼	28	21⅜	29⅜	29¼	26 13/16	18	1⅜	½	½
35	13	12	11¼	13½	17	16	19 9/16	15¼	10⅛	11¼	13	7¼	24¼	21⅜	6	6	33	26¼	31 13/16	31¼	31½	21	1½	½	½
40	14¼	14	16¼	16½	20½	18½	23¼	18½	10⅞	15⅜	15	8 3/16	26	26⅞	6¼	6¾	39	30¼	41¾	37¾	34 1/16	24	1 11/16	½	⅝
45	16⅞	16⅜	18¼	19	23	21⅜	25½	21	11½	17¼	17	9⅛	28¼	29¾	7½	8	44⅜	34⅞	46½	41¼	37⅜	27	1 15/16	⅝	¾
50	18¾	18½	22	21	25	23½	28⅛	23	12¾	19	19	10	31½	32¾	8½	8½	48½	40½	51⅛	45½	41½	30	1 15/16	⅝	¾
55	20½	20¼	22½	22½	27½	25½	31¼	25	14 5/16	21	21	10¾	34	36	9⅛	9½	53	42¾	56¼	50 5/16	44¼	33	2 3/16	¾	¾
60	22¾	20¼	25	24	30	25¾	33¾	27	15¼	22¾	23	11¼	37½	39	10	10¾	55¾	45¼	60¾	51¼	48¼	36	2 3/16	¾	¾
70	25¼	22¼	30¼	27¼	34¼	28¼	39¼	30¾	12¾	25⅛	25¾	13½	42½	42½	10½	12	63	53	70	55¼	56	42	2 7/16	¾	¾
80	30	26½	29¼	31	39	32½	45	35	14½	28	30	15	45¾	45¼	11¼	13¾	71½	55¼	80	60¾	60¼	48	2 11/16	¾	¾
90		34	31½	34	44	33½	49	39	16½	29¾	34	17⅛	47½	49⅜	12½	20	77½	65½	88	65⅞	61⅜	54	2 11/16	¾	¾
100		32	36½	37	49	34½	50½	43	18½	31¾	38	20	50¼	51	18½	20	83½	68½	93½	69½	70¼	60	2 15/16	¾	¾

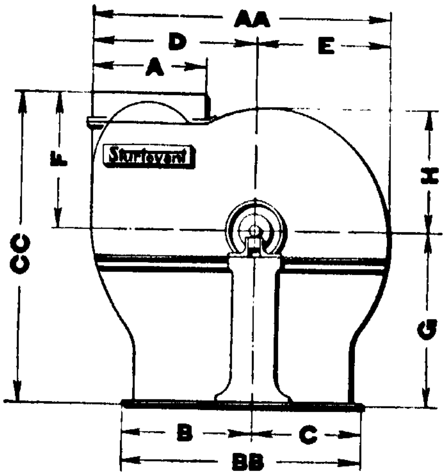
Note—Outlet for the 90 inch Exhauster is rectangular 30¼x28¾; that for the 100 is 32¼x32¼.

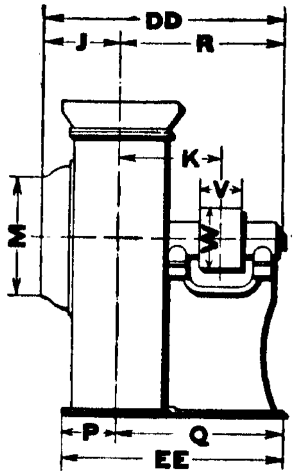
Single Inlet

Steel Plate Planing Mill Exhauster
Design 1

Single Width

Full Housing | **Up Blast Discharge** | **Overhung Wheel**





Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Fan	Hanger
30	11	12½	10½	16	13	13¼	16⅜	11½	8¼	12	11	6 7/16	20½	21	5	5¼	29	23	29⅞	29¼	26 15/16	18	1⅜	½	½
35	13	15	12½	18¼	15¼	16	19 9/16	13½	10⅛	14¼	13	7¼	24¼	24⅜	6	6	34	27½	35 9/16	34¾	31½	21	1½	½	½
40	14¾	17½	14½	22½	18½	18½	23¼	16½	10⅞	15⅜	15	8 3/16	26	26⅞	6¼	6¾	41	32	41⅞	37¾	34 3/16	24	1 11/16	⅝	⅝
45	16⅞	19¾	16¼	25	21	21¼	25½	19	11½	17¼	17	9⅜	28¼	29¾	7½	8	46	35½	46¾	41¼	37⅝	27	1 15/16	⅝	¾
50	18¾	23⅛	20½	27	23	24	28⅝	21	12¾	19	19	10	31½	32¾	8½	8½	50	44	52⅜	45½	41½	30	1 15/16	⅝	¾
55	20½	24¾	20¾	30	25	25	31¼	22½	14 5/16	21	21	10¾	33 15/16	36	9⅜	9½	55	45	56¼	50 9/16	44 11/16	33	2 3/16	¾	¾
60	22¾	26	22	33	27	26¼	33¾	24	15¼	22¾	23	11¼	37½	39	10	10¼	60	48	60	54¼	48¾	36	2 3/16	¾	⅞
70	25¾	29½	24½	37¾	30¾	28¾	39¼	27¼	12¾	25⅜	25¾	13½	42½	42½	10½	12	68½	54	68	55¼	56	42	2 7/16	¾	⅞
80	30	31	31	43	35	32½	45	31	14½	28	30	15	45¾	46½	11¾	13¾	78	62	77½	60¾	60¾	48	2 11/16	⅞	⅞
90		34½	34½	49	39	33½	45	34	16½	30	34	17	47½	49⅜	12½	20	88	69	78½	65⅞	64½	54	2 11/16	⅞	⅞
100		36½	36½	55	43	34½	50½	37	18½	31¾	38	20	50¼	51	18½	20	98	73	85	69½	70¼	60	2 15/16	⅞	⅞

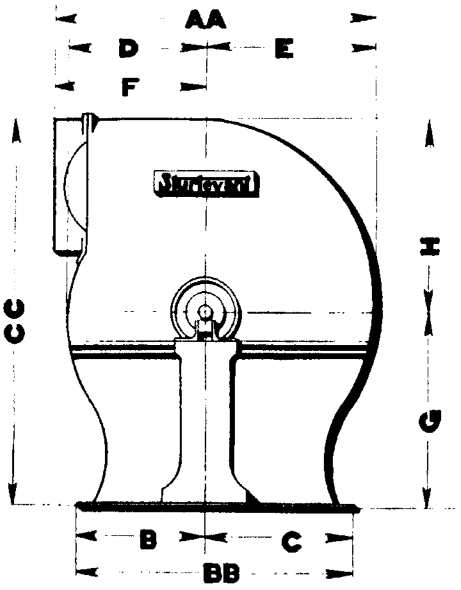
Note—Outlet for the 90″ Exhauster is rectangular, 30½″ × 28¾″: that for the 100″ is 32¾″ × 32½″

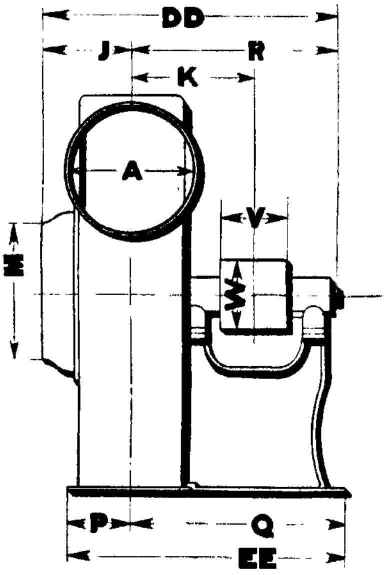
Single Inlet

Steel Plate Planing Mill Exhauster
Design 1

Single Width

Full Housing **Top Horizontal Discharge** **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	FE	Wheel Dia	Shaft Dia.	Anchor Bolts Fan	Anchor Bolts Hanger
30	11	10½	12½	11½	14½	13¼	16⅝	16	8¼	12	11	6 7/16	20½	21	5	5¼	27¼	23	32⅝	29¼	26 13/16	18	1⅜	½	½
35	13	12½	15	13½	17	16	19 9/16	18¾	10⅛	14¼	13	7¼	24¼	24⅜	6	6	33	27½	38 5/16	34¾	31½	21	1½	½	½
40	14¾	14½	17½	16½	20½	18⅛	23¼	22½	10⅞	15⅜	15	8 3/16	26	26⅞	6¼	6¾	39	32	45¾	37¼	34 3/16	24	1 11/16	½	⅝
45	16⅞	16¼	19¼	19	23	21¼	25½	25	11½	17¼	17	9⅛	28¼	29¾	7½	8	44¼	35½	50½	41¼	37⅜	27	1 13/16	⅝	¾
50	18¾	20½	23½	21	25	24	28⅛	27	12¾	19	19	10	31½	32¼	8½	8½	49	44	55⅛	45½	41½	30	1 15/16	⅝	¾
55	20½	20¾	24¼	22½	27½	25	31¼	30	14 5/16	21	21	10¾	34	36	9⅛	9½	52½	45	61¼	50 5/16	44¾	33	2 3/16	¾	¾
60	22¼	22	26	24	30	26¼	33¾	33	15¼	22¾	23	11¼	37½	39	10	10¼	56¼	48	66¾	54¼	48¾	36	2 3/16	¾	¾
70	25¾	24½	29½	27¼	34¼	28¾	39¼	37¾	12¾	25⅛	25¾	13½	42½	42½	10½	12	63	54	77	55¼	56	42	2 7/16	¾	¾
80	30	31	31	31	39	32½	45	43	14½	28	30	15	45¾	46¼	11¼	13¾	71½	62	88	60¾	60¾	48	2 11/16	¾	¾
90		34½	34½	34	44	33½	45	49	16½	30	34	17	47½	48¼	12½	20	77½	69	94	64½	64½	54	2 11/16	¾	¾
100		36½	36½	37	49	34½	50½	55	18½	31¾	38	20	50¼	50	18½	20	83½	73	105½	68½	70¼	60	2 15/16	¾	¾

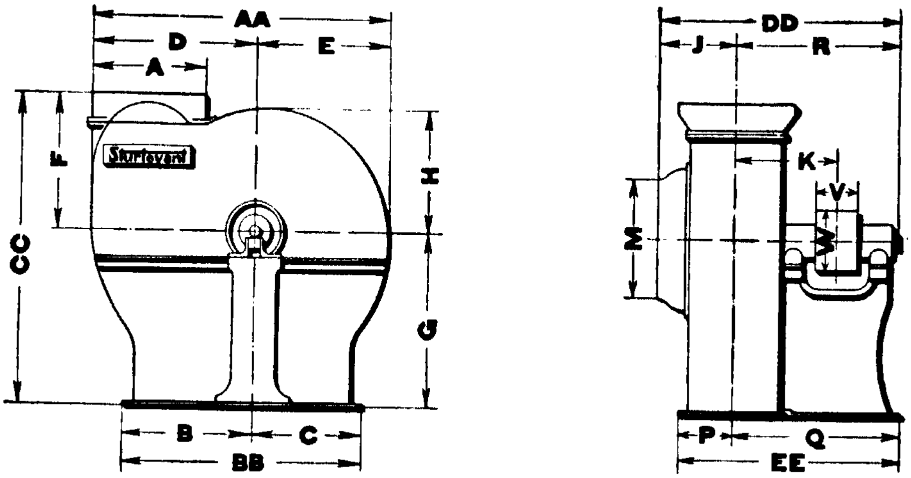
Note—Outlet for the 90 inch Exhauster is rectangular, 30½x28¼, that for 100 inch is 32¾x32½.

Single Inlet

Steel Plate Planing Mill Exhauster
Design 1

Single Width

Full Housing **Up Blast Discharge** **Overhung Wheel**



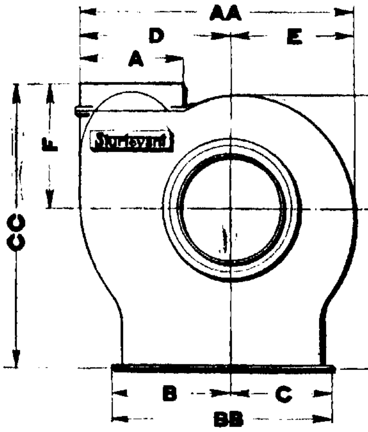
Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts	
																								Fan	Hanger
30	11	12½	10½	16	13	13¼	16⅝	11½	8¼	12	11	6 7/16	20½	21	5	5½	29	23	29⅞	29¼	26 15/16	18	1⅜	½	½
35	13	15	12½	18¼	15¼	16	19 9/16	13½	10⅜	14¼	13	7¼	24¼	24⅝	6	6	34	27½	35 9/16	34¾	31½	21	1½	½	½
40	14¾	17½	14½	22½	18½	18½	23¼	16½	10⅞	15⅝	15	8 3/16	26	26⅞	6¼	6¾	41	32	41⅞	37¾	34 3/16	24	1 11/16	⅝	⅝
45	16⅞	19⅝	16¼	25	21	21¼	25⅝	19	11⅝	17¼	17	9⅜	28¼	29¾	7½	8	46	35½	46¾	41¼	37⅝	27	1 15/16	⅝	¾
50	18¾	23⅝	20½	27	23	24	28⅝	21	12¾	19	19	10	31⅝	32¾	8½	8½	50	44	52⅛	45½	41½	30	1 15/16	⅝	¾
55	20⅝	24¾	20¾	30	25	25	31¼	22½	14 5/16	21	21	10¾	33 15/16	36	9⅜	9½	55	45	56¼	50 9/16	44 11/16	33	2 3/16	¾	¾
60	22¾	26	22	33	27	26¼	33¾	24	15¼	22¾	23	11¼	37½	39	10	10¼	60	48	60	54¼	48¾	36	2 3/16	¾	¾
70	25¾	29⅝	24½	37¾	30¾	28¾	39¼	27¼	12¾	25⅝	25¾	13⅝	42½	42½	10½	12	68½	54	68	55¼	56	42	2 7/16	¾	¾
80	30	31	31	43	35	32½	45	31	14½	28	30	15	45¾	46¼	11¼	13¾	78	62	77½	60¾	60¾	48	2 11/16	¾	¾
90		34½	34½	49	39	33½	45	34	16½	30	34	17	47½	49⅝	12½	20	88	69	78½	65⅞	64½	54	2 11/16	¾	¾
100		36½	36½	55	43	34½	50½	37	18½	31¾	38	20	50¼	51	18½	20	98	73	85	69½	70¼	60	2 15/16	¾	¾

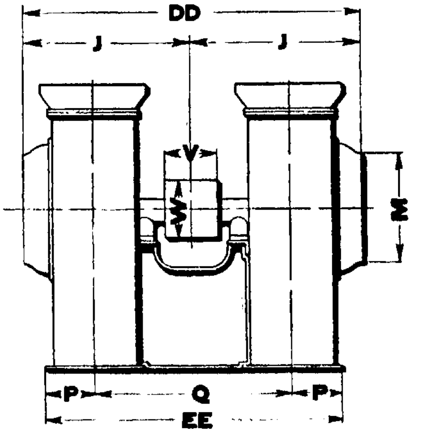
Note—Outlet for the 90″ Exhauster is rectangular, 30½″ × 28¾″: that for the 100″ is 32¾″ × 32½″

Double Steel Plate Planing Mill Exhauster
Design 1

Single Inlet **Single Width**

Full Housing **Up Blast Discharge** **Overhung Wheel**





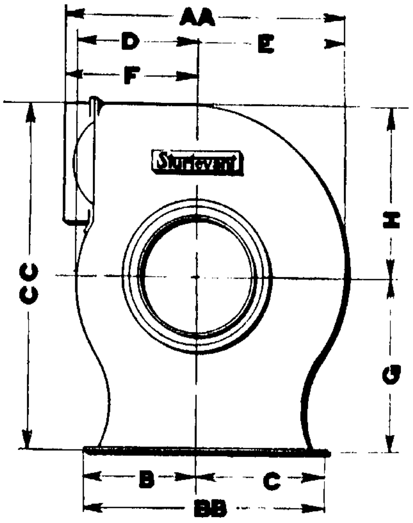
Fan Size	A	B	C	D	E	F	G	H	J	M	P	Q	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts Fan	Anchor Bolts Hanger
30	11	12½	10½	16	13	13¼	16⅞	11½	20¾	11	6 7/16	25	6	6⅛	29	23	29⅞	41½	37⅞	18	1⅞	½	½
35	13	15	12½	18¾	15¼	16	19 9/16	13½	24⅞	13	7¼	29½	7	7⅛	34	27½	35 9/16	49⅜	44	21	1½	½	½
40	14¾	17½	14½	22½	18½	18½	23¼	16½	27⅞	15	8 3/16	33	8	8	41	32	41¼	54¼	49⅜	24	1 11/16	½	⅝
45	16⅞	19¼	16¼	25	21	21¼	25½	19	29½	17	9⅛	36	9¼	9¼	46	35½	46¾	59	54¼	27	1 13/16	⅝	¾
50	18¾	23½	20½	27	23	24	28⅛	21	32 5/16	19	10	39⅛	10½	10	50	44	52⅛	64⅝	59⅛	30	1 15/16	⅝	¾
55	20½	24¼	20¼	30	25	25	31¼	22½	35 9/16	21	10¾	42½	11	11¼	55	45	56¼	71⅛	64	33	2 3/16	¾	¾
60	22¾	26	22	33	27	26¼	33¼	24	37¾	23	11¼	45	11½	12	60	48	60	75½	67½	36	2 7/16	¾	¾
70	25¼	29½	21½	37¾	30¼	28¾	39¼	27¼	39¾	25¾	13½	51	12½	16	68½	54	68	79½	81	42	2 7/16	¾	¾
80	30	31	31	43	35	32½	45	31	43	30	15	57	12½	20	78	62	77½	86	87	48	2 11/16	¾	¾
90		31½	31½	49	39	33½	45	31	47	31	17	61	18½	21	88	69	78½	94	95	54	2 11/16	¾	¾
100		36½	36½	55	43	31½	52¼	37	51	38	20	65	20½	26	98	73	86¾	102	105	60	2 15/16	¾	¾

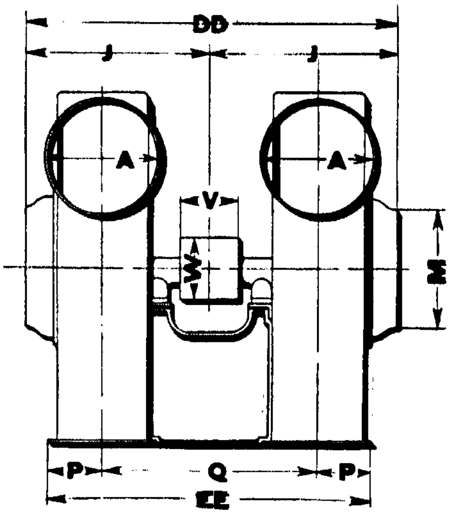
Note—Outlet for 90 inch exhauster is rectangular, 30½x28¼, that for the 100 inch is 32½x32¾.

Single Inlet Double Steel Plate Planing Mill Exhauster Single Width

Design 1

Full Housing **Top Horizontal Discharge** **Overhung Wheels**





Size	A	B	C	D	E	F	G	H	J	M	P	Q	V	W	AA	BB	CC	DD	FF	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts	
																						Fan	Hanger
30	11	10½	12½	11½	14½	13¾	16⅜	16	20¾	11	6 7/16	25	6	6⅛	27¾	23	32⅜	41½	37⅞	18	1⅜	½	½
35	13	12½	15	13½	17	16	19 9/16	18¾	24⅞	13	7¼	29½	7	7⅛	33	27½	38 5/16	49¼	44	21	1½	½	½
40	14¾	14½	17½	16½	20½	18½	23¼	22½	27⅜	15	8 3/16	33	8	8	39	32	45¾	51¼	49⅜	24	1 11/16	½	⅝
45	16⅝	16¼	19¼	19	23	21¼	25½	25	29⅛	17	9⅛	36	9¼	9¼	44¼	35½	50½	59	54¼	27	1 15/16	⅝	¾
50	18¾	20½	23½	21	25	24	28⅛	27	32 9/16	19	10	39⅛	10½	10	49	44	55⅛	64⅝	59⅛	30	1 15/16	⅝	¾
55	20½	20¾	24¼	22½	27½	25	31¼	30	35 9/16	21	10¾	42½	11	11¼	52½	45	61¼	71⅛	64	33	2 3/16	¾	¾
60	22¼	22	26	24	30	26¼	33¾	33	37¾	23	11½	45	11½	12	56¼	48	66¾	75½	67½	36	2 7/16	¾	¾
70	25¼	24½	29½	27¼	34¼	28¾	39¼	37¾	39¾	25¾	13½	54	12½	16	63	54	77	79½	81	42	2 7/16	¾	¾
80	30	31	31	31	39	32½	45	43	43	30	15	57	12½	20	71½	62	88	86	87	48	2 11/16	¾	¾
90		31½	31½	31	41	33½	45	49	47	34	17	61	18½	24	77½	69	94	94	95	54	2 11/16	¾	¾
100		36½	36½	37	49	34½	52¼	55	51	38	20	65	20½	26	83½	73	107¼	102	105	60	2 15/16	¾	¾

Note—Outlet for 90 inch exhauster is rectangular, 30½x28¼; that for the 100 inch is 32½x32¼.

Single Inlet **30" Steel Plate Planing Mill Exhauster—Design 1** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
765	3600	1 03	590	0 170												
806	3800	1 15	766	0 225												
850	4000	1 28	936	0 300												
891	4200	1 41	1,090	0 360												
935	4400	1 54	1,230	0 435	711	0 300										
976	4600	1 69	1,380	0 51	891	0 395										
1019	4800	1 84	1,500	0 62	1,070	0.19										
1060	5000	2 00	1,630	0,71	1,230	0 60										
1113	5250	2 20	1,770	0 84	1,420	0 73	980	0 56								
1168	5500	2 42	1,920	0 99	1,580	0 88	1,200	0 72								
1220	5750	2 54	2,040	1 10	1,750	1 00	1,400	0 88								
1272	6000	2 87	2,200	1 35	1,920	1 20	1,580	1 05	1,210	0 87						
1323	6250	3 12	2,330	1.55	2,070	1 40	1,780	1 25	1,420	1.10						
1380	6500	3 38	2,450	1 75	2,210	1 60	1,950	1 45	1,620	1.30	1,260	1 10				
1431	6750	3 63	2,570	2 00	2,360	1 85	2,110	1.70	1,810	1 55	1,470	1 35				
1486	7000	3 91	2,690	2 25	2,500	2 10	2,260	1 95	1,980	1 75	1,690	1 60	1,340	1 40		
1590	7500	4 50	2,920	2 8	2,760	2 65	2,580	2 45	2,320	2 35	2,060	2 15	1,760	1 95	1,460	1.70
1698	8000	5 11			3,020	3.3	2,850	3.10	2,640	3 00	2,410	2 75	2,150	2.55	1,870	2.35
1802	8500	5 76			3,260	4 0	3,110	3 85	2,940	3.60	2,730	3.40	2,490	3.30	2,240	3.10
1910	9000	6 46			3,480	4 8	3,370	4 6	3,220	4 35	3,020	4,25	2,830	4.05	2,600	3.85
2020	9500	7 20			3,720	5 7	3,600	5.5	3,490	5 3	3,320	5.1	3,150	4 9	2,940	4 7
2120	10000	7.98			3,960	6 8	3,850	6.6	3,730	6 4	3,600	6.2	3,430	6	3,260	5.7

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq.inch		Static Pressure 5" Water 2.89 per ozs. sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pessure 9" Water 5.2 ozs. per sq. inch	
1590	7500	4 50	1,130	1 45												
1698	8000	5 11	1,580	2 05	1,300	1 80										
1802	8500	5 76	1,990	2 70	1,710	2 50	1,440	2 25								
1910	9000	6 46	2,370	3 55	2,110	3.35	1,800	3 05	1,610	2 80						
2020	9500	7 20	2,740	4 5	2,510	4 25	2,270	3 95	2,030	3 65	1,550	3 05				
2120	10000	7 98	3,080	5 5	2,890	5 3	2,680	4 95	2,440	4.7	1,970	4.1	1,510	3 40		
2230	10500	8 78	3,400	6 6	3,220	6 4	3,040	6 1	2,830	5.8	2,390	5.2	1,950	4 55		
2335	11000	9 71	3,700	7.7	3,540	7 5	3,390	7.3	3,180	7 0	2,800	6.4	2,380	5.8	1,960	5 0
2440	11500	10.6	3,980	9 0	3,850	8 8	3,670	8 6	3,500	8 3	3,170	7 7	2,800	7 1	2,420	6 5
2540	12000	11.5	4,260	10 5	4,130	10.0	3,970	9 9	3,800	9 6	3,520	9 1	3,170	8 6	2,830	7 9
2650	12500	12 5	4,530	12 0	4,410	11.5	4,260	11 5	4,120	11 0	3,840	10.5	3,520	10.0	3,190	9.4
2760	13000	13 5	4,800	13 5	4,680	13	4,550	13.	4,420	12 5	4,150	12	3,850	11 5	3,540	11
2860	13500	14 5							4,720	14.5	4,450	14	4,180	13.5	3,890	13
2970	14000	15 7									4,750	16	4,510	15.5	4,230	15
3070	14500	16 8									5,050	18	4,820	17 5	4,570	17
3180	15000	18									5,340	20	5,140	20	4,900	19

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
2440	11500	10 6	1,960	5 6												
2540	12000	11 5	2,430	7.1	1,960	6.4										
2650	12500	12.5	2,850	8.6	2,450	7 8	2,070	7.2								
2760	13000	13.5	3,230	10 5	2,880	9.5	2,510	8.8	2,150	8 0						
2860	13500	14 5	3,600	12.5	3,260	11.5	2,920	10.5	2,620	9 8	2,240	9.0				
2970	14000	15.7	3,990	14 5	3,630	13.5	3,320	13	3,040	12.0	2,700	11.0	2,350	10.0		
3070	14500	16.8	4,310	16 5	4,010	15.5	3,720	15	3,430	14.0	3,110	13 5	2,800	12.5	2,450	11.5
3180	15000	18	4,670	18 5	4,380	18	4,110	17	3,800	16.5	3,500	15 5	3,220	14 5	2,900	13 5

Single Inlet **Single Width**

35" Steel Plate Planing Mill Exhauster — Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
655	3600	1.03	884	0.250												
690	3800	1.15	1,150	0 335												
727	4000	1.28	1,400	0 445												
764	4250	1 41	1,630	0.54												
800	4400	1 54	1,840	0.65	1,070	0.445										
837	4600	1.69	2,070	0.77	1,340	0.59										
873	4800	1.84	2,250	0 93	1,590	0.73										
910	5000	2 00	2,450	1 05	1,830	0 89										
955	5250	2 20	2,660	1 25	2,120	1 10	1,470	0 85								
1000	5500	2 42	2,880	1.50	2,380	1.30	1,790	1.10								
1046	5750	2 54	3,050	1.65	2,630	1.50	2,100	1 30								
1090	6000	2 87	3,280	2.00	2,870	1.80	2,370	1 60	1,810	1.35						
1137	6250	3.12	3,490	2.35	3,100	2.10	2,670	1.90	2,120	1 65						
1181	6500	3 38	3,670	2.65	3,320	2.40	2,920	2 15	2,430	2 00	1,890	1 65				
1228	6750	3 63	3,850	3.00	3,540	2.75	3,160	2.55	2,720	2 30	2,200	2.00				
1271	7000	3 91	4,020	3.35	3,730	3 10	3,380	2.90	2,970	2 65	2,530	2 40	2,020	2 05		
1362	7500	4 50	4,370	4.3	4,150	4 00	3,860	3 65	3,480	3 50	3,080	3 20	2,630	2 90	2,180	2 55
1453	8000	5 11			4,530	4.95	4,270	4 6	3,960	4 45	3,600	4 15	3,220	3 80	2,800	3.5
1545	8500	5 76			4,880	6.1	4,050	5.7	4,400	5 4	4,080	5 1	3,730	4.95	3,350	4.6
1637	9000	6 46			5,230	7.2	5,040	6.9	4,810	6 5	4,530	6 4	4,250	6.1	3,890	5.7
1728	9500	7 20			5,580	8.6	5,390	8.3	5,230	8 0	4,970	7 7	4,720	7 3	4,400	7.0
1819	10000	7.98			5,930	10	5,770	9.9	5,580	9.6	5,390	9.3	5,140	8.9	4,880	8 6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1363	7500	4 50	1,690	2.15												
1454	8000	5.11	2,380	3.1	1,950	2 75										
1545	8500	5.76	2,990	4 1	2,570	3.75	2,160	3.4								
1635	9000	6 46	3,560	5.3	3,170	5.0	2,790	4.6	2,410	4.15						
1728	9500	7 20	4,100	6.8	3,760	6.4	3,410	6.0	3,040	5 5	2,330	4.6				
1820	10000	7.98	4,620	8.2	4,330	7.9	4,020	7.5	3,660	7.0	2,950	6.1	2,270	5 1		
1910	10500	8.78	5,110	9.9	4,830	9.6	4,560	9.2	4,250	8.6	3,580	7.8	2,920	6 8		
2000	11000	9.71	5,550	11.5	5,310	11.5	5,050	11.0	4,760	10.5	4,200	9 6	3,570	8.7	2,940	7,5
2090	11500	10.6	5,970	13.5	5,770	13 0	5,500	13.0	5,250	12.5	4,760	11.5	4,200	10.5	3,630	9.7
2182	12000	11 5	6,390	15.5	6,200	15 0	5,950	15.0	5,700	14.5	5,280	13.5	4,750	13 0	4,250	12 0
2274	12500	12.5	6,800	18	6,610	17.5	6,390	17.0	6,180	16.5	5,760	16.0	5,280	15 0	4,780	14 0
2365	13000	13 5	7,200	20	7,020	20	6,830	19.5	6,640	19	6,220	18.5	5,780	17.5	5,310	16.5
2455	13500	14.5							7,080	22	6,680	21	6,280	20.5	5,840	19 5
2545	14000	15 7									7,130	24	6,770	23.5	6,350	22.5
2640	14500	16.8									7,570	27	7,240	27	6,850	25
2730	15000	18									8,010	30	7,710	30	7,350	29

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
2090	11500	10 6	2,940	8 5												
2182	12000	11 5	3,640	10.5	2,940	9.5										
2274	12500	12 5	4,280	13 0	3,680	11.5	3,100	10 5								
2365	13000	13 5	4,850	15 5	4,320	14 5	3,760	13 0	3,220	12 0						
2455	13500	14 5	5,400	18.5	4,800	17 0	4,380	16 0	3,930	14.5	3,360	13 5				
2545	14000	15 7	5,940	21 5	5,450	20 0	4,980	19.0	4,560	18 0	4,050	16 5	3,520	15.0		
2640	14500	16.8	6,470	24.5	6,020	23 5	5,570	22.5	5,140	21 0	4,670	20 0	4,200	18.5	3,680	17.0
2730	15000	18	7,000	28	6,570	27	6,150	26	5,700	24 5	5,250	23 0	4,830	22	4,350	20.5

Single Inlet

40" Steel Plate Planing Mill Exhauster—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
573	3600	1.03	1,160	0.33												
605	3800	1.15	1,500	0.44												
637	4000	1.28	1,840	0.58												
670	4200	1.41	2,130	0.71												
700	4400	1.54	2,410	0.86	1,390	0.58										
732	4600	1.69	2,710	1.00	1,750	0.77										
765	4800	1.84	2,950	1.20	2,090	0.96										
796	5000	2.00	3,200	1.40	2,400	1.15										
836	5250	2.20	3,480	1.65	2,780	1.45	1,920	1.10								
875	5500	2.42	3,760	1.95	3,120	1.75	2,340	1.40								
915	5750	2.51	3,990	2.15	3,440	1.95	2,740	1.75								
955	6000	2.87	4,300	2.65	3,760	2.40	3,100	2.10	2,360	1.75						
996	6250	3.12	4,560	3.05	4,060	2.75	3,500	2.45	2,780	2.15						
1034	6500	3.38	4,800	3.45	4,340	3.15	3,820	2.85	3,180	2.60	2,470	2.15				
1074	6750	3.63	5,040	3.9	4,630	3.6	4,130	3.35	3,550	3.00	2,880	2.65				
1115	7000	3.91	5,250	4.4	4,880	4.1	4,420	3.8	3,880	3.45	3,300	3.15	2,640	2.7		
1193	7500	4.50	5,710	5.6	5,420	5.2	5,050	4.8	4,550	4.6	4,040	4.15	3,440	3.8	2,850	3.35
1273	8000	5.11			5,910	6.5	5,590	6.0	5,170	5.8	4,710	5.4	4,210	5.0	3,660	4.6
1352	8500	5.76			6,390	7.9	6,090	7.5	5,750	7.1	5,340	6.7	4,890	6.5	4,390	6.0
1433	9000	6.46			6,830	9.4	6,600	9	6,300	8.6	5,930	8.3	5,550	7.9	5,100	7.5
1511	9500	7.20			7,300	11.5	7,050	11	6,850	10.5	6,500	10	6,180	9.6	5,750	9.2
1591	10000	7.98			7,760	13.5	7,550	13	7,300	12.5	7,050	12	6,720	11.5	6,390	11.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1190	7500	4.50	2,210	2.80												
1270	8000	5.11	3,100	4.05	2,550	3.55										
1350	8500	5.76	3,900	5.3	3,350	4.9	2,820	4.4								
1430	9000	6.46	4,640	7.0	4,140	6.6	3,640	6.0	3,150	5.4						
1510	9500	7.20	5,360	8.8	4,910	8.3	4,450	7.8	3,970	7.2	3,040	6.0				
1590	10000	7.98	6,030	11.0	5,650	10.5	5,250	9.7	4,770	9.2	3,860	8.0	2,960	6.7		
1670	10500	8.78	6,660	13.0	6,310	12.5	5,960	12.0	5,540	11.5	4,680	10.0	3,800	8.9		
1750	11000	9.71	7,250	15.0	6,940	15	6,600	14.5	6,210	13.5	5,480	12.5	4,670	11.5	3,840	9.8
1830	11500	10.6	7,790	17.5	7,530	17	7,180	17.0	6,850	16.0	6,220	15	5,470	14.0	4,740	12.5
1910	12000	11.5	8,340	20	8,090	20	7,770	19.5	7,450	19.0	6,900	18	6,200	16.5	5,540	15.5
1990	12500	12.5	8,860	23	8,640	23	8,340	22	8,060	21.5	7,520	21	6,900	19.5	6,250	18.5
2070	13000	13.5	9,100	26	9,160	26	8,910	25	8,660	25	8,120	24	7,540	23	6,930	21.5
2150	13500	14.5							9,240	28	8,720	27	8,190	26	7,610	25
2225	14000	15.7									9,300	31	8,820	31	8,280	29
2305	14500	16.8									9,890	35	9,450	35	8,950	33
2385	15000	18									10,500	40	10,100	39	9,600	37

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1830	11500	10.6	3,840	11												
1910	12000	11.5	4,760	14	3,840	12.5										
1990	12500	12.5	5,600	17	4,800	15.5	4,050	14.0								
2070	13000	13.5	6,330	20	5,620	18.5	4,920	17.5	4,210	15.5						
2150	13500	14.5	7,050	24	6,380	22.5	5,720	21	5,130	19.0	4,400	17.5				
2225	14000	15.7	7,760	28	7,120	26	6,500	25	5,960	23.5	5,290	21.5	4,610	20		
2305	14500	16.8	8,450	32	7,850	31	7,270	29	6,710	28	6,100	26	5,490	24	4,800	22
2385	15000	18	9,120	36	8,560	35	8,020	34	7,450	32	6,870	30	6,320	29	5,680	27

Single Inlet

45" Steel Plate Planing Mill Exhauster — Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
510	3600	1.03	1,460	0.415												
537	3800	1.15	1,900	0.55												
566	4000	1.28	2,320	0.74												
595	4200	1.41	2,690	0.90												
622	4400	1.51	3,050	1.10	1,760	0.74										
651	4600	1.69	3,420	1.25	2,210	0.98										
680	4800	1.84	3,720	1.55	2,640	1.20										
707	5000	2.00	4,050	1.75	3,030	1.50										
743	5250	2.20	4,400	2.10	3,510	1.80	2,420	1.40								
779	5500	2.42	4,760	2.45	3,940	2.20	2,960	1.80								
814	5750	2.51	5,050	2.75	4,340	2.50	3,460	2.20								
850	6000	2.87	5,430	3.30	4,750	3.00	3,920	2.65	2,980	2.20						
885	6250	3.12	5,770	3.90	5,120	3.50	4,410	3.1	3,500	2.75						
920	6500	3.38	6,060	4.40	5,480	4.00	4,830	3.6	4,010	3.25	3,020	2.75				
955	6750	3.63	6,360	4.95	5,850	4.55	5,210	4.2	4,490	3.80	3,640	3.3				
990	7000	3.91	6,650	5.5	6,160	5.2	5,590	4.8	4,900	4.35	4,170	4.0	3,330	3.45		
1060	7500	4.50	7,220	7.1	6,850	6.6	6,380	6.1	5,750	5.8	5,100	5.3	4,350	4.8	3,600	4.2
1131	8000	5.11			7,490	8.2	7,060	7.6	6,540	7.4	5,950	6.9	5,320	6.3	4,620	5.8
1201	8500	5.76			8,070	10	7,700	9.5	7,270	9	6,750	8.4	6,160	8.2	5,540	7.6
1273	9000	6.46			8,650	12	8,330	11.5	7,960	11	7,480	10.5	7,010	10	6,430	9.5
1343	9500	7.20			9,230	14	8,900	13.5	8,650	13	8,220	12.5	7,800	12	7,270	11.5
1414	10000	7.98			9,800	17	9,550	16.5	9,220	16	8,900	15.5	8,490	15	8,060	14

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1064	7500	4.50	2,800	3.55												
1135	8000	5.11	3,930	5.1	3,230	4.5										
1205	8500	5.76	4,940	6.7	4,240	6.2	3,570	5.6								
1278	9000	6.46	5,880	8.8	5,230	8.3	4,610	7.6	3,990	6.9						
1350	9500	7.20	6,780	11.0	6,220	10.5	5,640	9.8	5,030	9.1	3,850	7.6				
1420	10000	7.98	7,640	13.5	7,150	13.0	6,640	12.5	6,050	11.5	4,880	10.0	3,750	8.4		
1490	10500	8.78	8,440	16.5	7,990	16.0	7,540	15.0	7,010	14.5	5,920	13.0	4,820	11.5		
1560	11000	9.71	9,180	19	8,780	18.5	8,350	18.0	7,860	17.5	6,940	16.0	5,910	14.5	4,870	12.5
1630	11500	10.6	9,860	22	9,540	22	9,100	21.0	8,670	20.5	7,870	19.0	6,930	17.5	6,000	16.0
1700	12000	11.5	10,600	26	10,200	25	9,840	24.5	9,420	24	8,730	22.5	7,850	21	7,010	19.5
1770	12500	12.5	11,200	30	10,900	29	10,600	28	10,200	27	9,520	26	8,740	25	7,900	23
1840	13000	13.5	11,900	33	11,600	32	11,300	32	11,000	32	10,300	30	9,550	29	8,780	27
1910	13500	14.5							11,700	36	11,000	35	10,400	34	9,640	32
1980	14000	15.7									11,800	40	11,200	39	10,500	37
2050	14500	16.8									12,500	45	12,000	44	11,300	42
2120	15000	18									13,300	50	12,700	49	12,200	47

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.73 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1630	11500	10.6	4,870	14.0												
1700	12000	11.5	6,020	17.5	4,870	15.5										
1770	12500	12.5	7,070	21.5	6,080	19.5	5,130	17.5								
1840	13000	13.5	8,010	25	7,140	23.5	6,230	22.0	5,330	20.0						
1910	13500	14.5	8,930	30	8,090	28	7,250	27	6,510	24.5	5,570	22				
1980	14000	15.7	9,820	35	9,020	34	8,240	32	7,550	30	6,700	27	5,840	25		
2050	14500	16.8	10,700	41	9,950	39	9,220	37	8,500	35	7,720	33	6,950	31	6,080	28
2120	15000	18	11,500	46	10,900	44	10,200	42	9,440	41	8,700	38	8,000	36	7,200	34

Single Inlet

50" Steel Plate Planing Mill Exhauster — Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½ Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
458	3600	1 03	1,810	0 52												
484	3800	1 15	2,350	0,69												
510	4000	1 28	2,870	0 91												
535	4200	1 41	3,330	1 10												
560	4400	1 54	3,770	1 35	2,180	0 91										
585	4600	1 69	4,230	1.55	2,730	1 20										
611	4800	1 84	4,600	1 90	3,260	1 50										
636	5000	2 00	5,000	2 20	3,750	1.85										
669	5250	2 20	5,440	2 55	4,340	2 20	3,000	1.75								
700	5500	2 42	5,890	3 05	4,870	2 70	3,660	2.20								
732	5750	2 54	6,240	3 4	5,370	3 05	4,290	2.70								
765	6000	2 87	6,710	4 1	5,860	3 70	4,850	3.25	3,690	2 75						
795	6250	3 12	7,140	4 8	6,340	4.30	5,460	3 85	4,340	3.40						
823	6500	3 38	7,500	5.4	6,790	4 95	5,970	4.45	4,960	4.05	3,860	3 40				
860	6750	3 63	7,870	6 1	7,240	5,6	6,450	5.2	5,550	4.7	4,500	4.10				
891	7000	3 91	8,210	6 9	7,630	6 4	6,910	5.9	6,060	5 4	5,160	4.95	4,110	4 25		
955	7500	4 50	8,910	8 8	8,480	8 1	7,890	7.5	7,110	7.2	6,300	6 5	5,380	5 9	4,450	5.2
1019	8000	5 11			9,250	10 0	8,740	9.5	8,090	9.1	7,300	8.5	6,590	7.8	5,720	7.2
1081	8500	5 76			9,980	12.5	9,520	11.5	9,000	11,0	8,350	10 5	7,630	10 0	6,850	9.5
1147	9000	6 46			10,700	14 5	10,300	14	9,850	13 5	9,250	13 0	8,670	12.5	7,950	11 5
1210	9500	7 20			11,400	17.5	11,000	17	10,700	16.5	10,200	15 5	9,650	15 0	9,000	14.5
1273	10000	7.98			12,100	21	11,800	20	11,400	19 5	11,000	19	10,500	18.5	9,980	17 5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
955	7500	4 50	3,460	4.4												
1020	8000	5 11	4,850	6.4	4,000	5 6										
1080	8500	5.76	6,110	8 3	5,250	7.7	4,420	6.9								
1150	9000	6.46	7,270	11	6,480	10 5	5,700	9.4	4,930	8.5						
1210	9500	7.20	8,400	14	7,690	13 0	6,980	12 0	6,220	11.0	4,770	9 4				
1285	10000	7.98	9,440	17	8,850	16.0	8,220	15.0	7,500	14.5	6,040	12 5	4,640	10.5		
1340	10500	8.78	10,400	20	9,880	19.5	9,350	19 0	8,680	17 5	7,330	16 0	5,900	14 0		
1402	11000	9.71	11,400	24	10,900	23	10,300	22.5	9,730	21 5	8,570	19,5	7,300	17 5	6,020	15 5
1465	11500	10.6	12,200	28	11,800	27	11,300	26	10,700	25	9,730	23.5	8,580	22	7,430	20
1528	12000	11.5	13,100	32	12,700	31	12,200	30	11,700	29	10,800	28	9,730	26	8,680	24
1590	12500	12 5	13,900	37	13,500	36	13,100	35	12,600	34	11,800	33	10,800	31	9,780	29
1655	13000	13 5	14,700	41	14,300	40	13,900	40	13,600	39	12,700	38	11,800	36	10,900	34
1720	13500	14 5							14,500	45	13,700	43	12,800	42	11,900	39
1780	14000	15.7									14,600	49	13,800	48	13,000	46
1845	14500	16 8									15,500	56	14,800	54	14,000	52
1910	15000	18									16,400	62	15,800	60	15,000	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs.per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16"oWater 9.25 zs. per sq.inch	
1465	11500	10 6	6,020	17.5												
1528	12000	11.5	7,450	22	6,020	19 5										
1590	12500	12 5	8,750	26	7,520	24	6,350	22								
1655	13000	13.5	9,910	31	8,820	29	7,700	27	6,580	24.5						
1720	13500	14 5	11,000	38	10,000	35	8,900	33	8,050	30	6,880	27				
1780	14000	15.7	12,100	44	11,200	41	10,200	39	9,340	37	8,280	34	7,220	31		
1845	14500	16 8	13,200	50	12,300	48	11,400	46	10,500	43	9,550	41	8,600	38	7,520	35
1910	15000	18	14,300	58	13,400	54	12,600	52	11,700	50	10,700	47	9,880	45	8,900	42

Single Inlet

55" Steel Plate Planing Mill Exhauster—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
416	3600	1.03	2,180	0.62												
440	3800	1.15	2,830	0.83												
463	4000	1.28	3,460	1.10												
486	4200	1.41	4,010	1.35												
510	4400	1.54	4,550	1.60	2,630	1.10										
532	4600	1.69	5,100	1.90	3,300	1.45										
555	4800	1.84	5,550	2.30	3,940	1.80										
579	5000	2.00	6,040	2.65	4,530	2.20										
607	5250	2.20	6,560	3.10	5,240	2.70	3,620	2.10								
636	5500	2.42	7,100	3.65	5,890	3.25	4,420	2.70								
665	5750	2.54	7,520	4.10	6,490	3.7	5,170	3.25								
695	6000	2.87	8,100	4.95	7,090	4.5	5,850	3.95	4,450	3.3						
723	6250	3.12	8,500	5.8	7,650	5.2	6,600	4.65	5,230	4.1						
753	6500	3.38	9,050	6.5	8,190	6.0	7,210	5.4	5,990	4.9	4,660	4.10				
781	6750	3.63	9,500	7.4	8,740	6.8	7,800	6.3	6,700	5.7	5,430	4.95				
810	7000	3.91	9,910	8.3	9,210	7.7	8,350	7.2	7,320	6.5	6,240	6.0	4,970	5.1		
869	7500	4.50	10,800	10.5	10,200	9.8	9,520	9.1	8,580	8.7	7,610	7.9	6,500	7.2	5,380	6.3
925	8000	5.11			11,200	12.0	10,500	11.5	9,750	11.0	8,900	10.0	7,950	9.4	6,900	8.7
984	8500	5.76			12,100	15.0	11,500	14.0	10,900	13.5	10,100	12.5	9,210	12	8,200	11.5
1040	9000	6.46			12,900	17.5	12,400	17.0	11,900	16.0	11,200	15.5	10,500	15	9,600	14.0
1100	9500	7.20			13,800	21	13,300	20.5	12,900	19.5	12,300	19	11,700	18	10,900	17.5
1158	10000	7.98			14,600	25	14,300	24.5	13,800	23.5	13,300	23	12,700	22	12,000	21

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq.inch		Static Pressure 5" Water 2.89 per ozs. sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pessure 9" Water 5.2 ozs. per sq. inch	
867	7500	4.50	4,170	5.3												
925	8000	5.11	5,860	7.7	4,820	6.8										
983	8500	5.76	7,370	10.0	6,330	9.3	5,330	8.3								
1040	9000	6.46	8,770	13.0	7,810	12.5	6,880	11.5	5,950	10.5						
1100	9500	7.20	10,100	16.5	9,290	16.0	8,400	14.5	7,500	13.5	5,750	11.5				
1158	10000	7.98	11,400	20.0	10,700	19.5	9,000	18.5	9,010	17.5	7,280	15.0	5,590	12.5		
1215	10500	8.78	12,600	24.5	11,900	23.5	11,200	22.5	10,500	21.5	8,840	19.5	7,190	17.0		
1274	11000	9.71	13,700	29	13,100	28	12,500	27	11,700	26	10,300	24	8,810	21.5	7,260	18.5
1332	11500	10.6	14,700	33	14,200	33	13,600	32	12,900	31	11,700	29	10,400	26	8,950	24
1390	12000	11.5	15,800	38	15,300	38	14,700	37	14,100	35	13,000	34	11,700	32	10,500	29
1447	12500	12.5	16,800	44	16,300	43	15,800	42	15,200	41	14,200	39	13,000	37	11,800	35
1505	13000	13.5	17,800	50	17,300	49	16,800	48	16,400	47	15,300	45	14,300	43	13,100	41
1560	13500	14.5							17,500	54	16,500	52	15,500	50	14,400	48
1620	14000	15.7									17,600	60	16,700	58	15,700	56
1680	14500	16.8									18,700	68	17,800	66	16,900	62
1737	15000	18									19,800	74	19,000	74	18,100	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1332	11500	10.6	7,260	21												
1390	12000	11.5	8,980	26	7,260	23.5										
1447	12500	12.5	10,600	32	9,080	29	7,660	26								
1505	13000	13.5	11,900	38	10,600	35	9,300	33	7,950	30						
1560	13500	14.5	13,300	45	12,100	42	10,800	40	9,700	36	8,300	33				
1620	14000	15.7	14,600	52	13,400	50	12,300	47	11,200	44	9,980	41	8,710	37		
1680	14500	16.8	15,900	60	14,800	58	13,700	56	12,700	52	11,500	49	10,400	45	9,070	42
1737	15000	18	17,300	68	16,200	66	15,200	64	14,100	60	13,000	58	11,900	54	10,700	50

Single Inlet **Single Width**

60" Steel Plate Planing Mill Exhauster—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
382	3600	1.03	2,770	0.79												
403	3800	1.15	3,600	1.05												
425	4000	1.28	4,400	1.40												
445	4200	1.41	5,100	1.70												
466	4400	1.54	5,780	2.05	3,340	1.40										
488	4600	1.69	6,490	2.40	4,190	1.85										
509	4800	1.84	7,060	2.90	5,000	2.30										
530	5000	2.00	7,670	3.35	5,750	2.80										
556	5250	2.20	8,330	3.95	6,650	3.40	4,600	2.65								
584	5500	2.42	9,020	4.65	7,470	4.15	5,610	3.40								
610	5750	2.54	9,560	5.2	8,240	4.7	6,570	4.15								
636	6000	2.87	10,300	6.3	9,000	5.7	7,430	5.0	5,660	4.2						
662	6250	3.12	10,900	7.4	9,720	6.6	8,380	5.9	6,650	5.2						
690	6500	3.38	11,500	8.3	10,400	7.6	9,160	6.8	7,610	6.2	5,920	5.2				
715	6750	3.63	12,100	9.4	11,100	8.6	9,900	8.0	8,510	7.2	6,900	6.3				
742	7000	3.91	12,600	10.5	11,700	9.8	10,600	9.1	9,300	8.3	7,920	7.6	6,310	6.5		
795	7500	4.50	13,700	13.5	13,000	12.5	12,100	11.5	10,900	11.0	9,670	10	8,250	9.1	6,830	8.0
848	8000	5.11			14,200	15.5	13,400	14.5	12,400	14.0	11,300	13	10,100	12.0	8,770	11.0
900	8500	5.76			15,200	19.0	14,600	18.0	13,800	17.0	12,800	16	11,700	15.5	10,500	14.5
954	9000	6.46			16,400	22.5	15,800	21.5	15,100	20.5	14,200	20	13,300	19	12,200	18
1010	9500	7.20			17,500	27	16,900	26	16,400	25	15,600	24	14,800	23	13,800	22
1060	10000	7.98			18,600	32	18,100	31	17,500	30	16,900	29	16,100	28	15,300	27

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
795	7500	4.50	5,300	6.7												
847	8000	5.11	7,450	9.7	6,120	8.6										
900	8500	5.76	9,360	13.0	8,040	12.0	6,770	10.5								
953	9000	6.46	11,100	16.5	9,920	15.5	8,750	14.5	7,550	13						
1005	9500	7.20	12,900	21	11,800	20	10,700	18.5	9,540	17	7,300	11.5				
1050	10000	7.98	14,500	26	13,600	25	12,600	23.5	11,400	22	9,250	19.5	7,100	16.0		
1112	10500	8.78	16,000	31	15,100	30	14,300	29	13,300	27	11,200	21.5	9,140	21.5		
1165	11000	9.71	17,400	36	16,600	35	15,800	34	14,900	33	13,200	30	11,200	27	9,220	23.5
1220	11500	10.6	18,700	42	18,100	41	17,200	40	16,400	39	14,900	36	13,200	33	11,100	30
1273	12000	11.5	20,000	49	19,400	48	18,600	47	17,900	45	16,600	43	14,900	40	13,300	37
1325	12500	12.5	21,300	56	20,700	54	20,000	54	19,300	52	18,100	50	16,600	47	15,000	44
1380	13000	13.5	22,600	64	22,000	62	21,400	62	20,800	60	19,500	58	18,100	56	16,600	52
1430	13500	14.5							22,200	68	20,900	66	19,700	64	18,300	60
1480	14000	15.7									22,300	76	21,200	74	19,900	70
1537	14500	16.8									23,700	86	22,600	84	21,500	80
1590	15000	18									25,100	96	24,200	94	23,000	90

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11' Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1220	11500	10.6	9,220	26												
1273	12000	11.5	11,100	33	9,220	30										
1325	12500	12.5	13,100	40	11,300	37	9,730	34								
1380	13000	13.5	15,200	48	13,500	45	11,800	41	10,100	38						
1430	13500	14.5	16,900	58	15,300	54	13,700	50	12,300	46	10,500	42				
1480	14000	15.7	18,600	68	17,100	64	15,600	60	14,300	56	12,700	52	11,100	47		
1537	14500	16.8	20,200	78	18,800	74	17,500	70	16,100	66	14,600	62	13,100	58	11,500	52
1590	15000	18	21,900	88	20,600	81	19,300	80	17,800	78	16,500	72	15,100	68	13,600	61

Single Inlet

70" Steel Plate Planing Mill Exhauster—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
327	3600	1.03	3,560	1.00												
346	3800	1.15	4,610	1.35												
364	4000	1.28	5,650	1.75												
382	4200	1.41	6,560	2.20												
400	4400	1.54	7,420	2.65	4,290	1.85										
418	4600	1.69	8,320	3.1	5,380	2.35										
436	4800	1.84	9,070	3.7	6,430	2.95										
455	5000	2.00	9,850	4.3	7,390	3.55										
477	5250	2.20	10,700	5.1	8,550	4.4	5,890	3.4								
500	5500	2.42	11,600	6.0	9,590	5.3	7,200	4.4								
523	5750	2.54	12,300	6.7	10,600	6.0	8,140	5.3								
545	6000	2.87	13,200	8.1	11,600	7.3	9,540	6.1	7,270	5.4						
569	6250	3.12	14,000	9.4	12,500	8.5	10,800	7.6	8,540	6.6						
590	6500	3.38	14,800	10.5	13,300	9.7	11,800	8.8	9,770	7.9	7,600	6.7				
614	6750	3.63	15,500	12.0	14,200	11.0	12,700	10.5	10,900	9.3	8,860	8.1				
636	7000	3.91	16,200	13.5	15,100	12.5	13,700	11.5	11,900	10.5	10,200	9.7	8,100	8.3		
682	7500	4.50	17,600	17.5	16,600	16	15,500	15.0	14,000	14.0	12,400	13.0	10,600	11.5	8,760	10.5
726	8000	5.11			18,200	20	17,200	18.5	15,900	17.5	14,500	16.5	13,000	15.5	11,300	14.0
773	8500	5.76			19,700	24	18,700	23	17,700	22	16,500	20.5	15,100	19.5	13,500	18.5
819	9000	6.46			21,000	29	20,300	28	19,300	27	18,200	25	17,100	24.5	15,700	23
864	9500	7.20			22,400	35	21,700	33	21,000	32	20,000	31	19,000	30	17,700	28
910	10000	7.98			23,900	41	23,200	39	22,500	38	21,700	37	20,700	35	19,700	34

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
682	7500	4.50	6,800	8.7												
727	8000	5.11	9,550	12.5	7,850	11										
772	8500	5.76	12,000	16.5	10,300	15	8,690	13.5								
818	9000	6.46	14,300	21.5	12,700	20	11,200	18.5	9,700	17						
864	9500	7.20	16,500	27	15,100	26	13,700	24	12,200	22	9,390	18.5				
910	10000	7.98	18,600	33	17,400	32	16,100	30	14,700	28	11,800	24.5	9,120	20.5		
955	10500	8.78	20,500	40	19,400	38	18,400	37	17,000	35	14,400	32	11,700	27		
1000	11000	9.71	22,300	47	21,400	46	20,300	44	19,100	42	16,900	39	14,400	35	11,800	30
1045	11500	10.6	24,000	54	23,200	54	22,100	52	21,100	50	19,200	47	16,900	43	14,600	39
1090	12000	11.5	25,700	62	24,900	62	24,000	60	22,900	58	21,300	56	19,100	52	17,100	47
1136	12500	12.5	27,300	72	26,600	70	25,700	68	24,800	66	23,200	64	21,200	60	19,200	56
1180	13000	13.5	29,000	82	28,200	80	27,400	78	26,700	76	25,000	71	23,200	70	21,400	66
1227	13500	14.5							28,500	88	26,900	84	25,200	82	23,400	78
1273	14000	15.7									28,700	98	27,200	94	25,500	90
1320	14500	16.8									30,400	110	29,100	105	27,600	100
1365	15000	18									32,200	120	31,000	120	29,600	115

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
1045	11500	10.6	11,800	34												
1090	12000	11.5	14,700	43	11,800	38										
1136	12500	12.5	17,200	52	14,800	47	12,500	43								
1180	13000	13.5	19,500	62	17,400	58	15,200	54	13,000	48						
1227	13500	14.5	21,700	71	19,600	70	17,600	64	15,800	60	13,500	54				
1273	14000	15.7	23,900	86	21,900	82	20,000	78	18,400	72	16,300	66	14,200	60		
1320	14500	16.8	26,000	98	24,200	94	22,400	90	20,600	86	18,800	80	16,900	74	14,800	68
1365	15000	18	28,100	110	26,400	105	24,800	105	23,000	98	21,100	94	19,400	88	17,500	82

Single Inlet # 80" Steel Plate Planing Mill Exhauster—Design 1 **Single Width**

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½ Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
286	3600	1 03	4,810	1 40												
302	3800	1.15	6,250	1.85												
318	4000	1 28	7,650	2.40												
334	4200	1 41	8,870	2 95												
350	4400	1.54	10,100	3.55	5 800	2 50										
366	4600	1 60	11,300	4 2	7,280	3.20										
382	4800	1.84	12,300	5 0	8,700	4.00										
398	5000	2 00	13,300	5.8	10,000	4.85										
417	5250	2 20	14,500	6.8	11,600	5.9	7,980	1.65								
437	5500	2.42	15,700	8.1	13,000	7.2	9,750	5.9								
457	5750	2 54	16,600	9 0	14,300	8 2	11,400	7.2								
477	6000	2 87	17,900	11.0	15,700	9.9	12,900	8.7	9,850	7 3						
497	6250	3 12	19,000	13.0	16,900	11 5	14,600	10 5	11,600	9 0						
516	6500	3 38	20,000	14.5	18,000	13.0	15,900	12.0	13,200	10.5	10,300	9.1				
536	6750	3.63	21,000	16.5	19,300	15.0	17,200	14.0	14,800	12.5	12,000	11 0				
556	7000	3 91	22,000	18.5	20,400	17.0	18,500	16.0	16,200	14.5	13,800	13 0	11,000	11		
596	7500	4 50	23,800	23	22,500	21.5	21,000	20.5	19,000	19	16,800	17 5	14,300	16	11,900	14
636	8000	5.11			24,600	27	23,200	25	21,600	24	19,700	22 5	17,500	21	15,200	19
676	8500	5.76			26,600	33	25,400	31	23,900	30	22,300	28	20,400	27	18,300	25
716	9000	6 46			28,400	39	27,400	38	26,200	36	24,700	34	23,100	33	21,300	31
756	9500	7.20			30,400	47	29,400	45	28,400	44	27,100	42	25,700	40	24,000	38
796	10000	7.98			32,400	56	31,400	54	30,500	52	29,300	50	28,000	48	26 700	46

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
597	7500	4.50	9,210	11.5												
637	8000	5.11	12,900	17	10,700	15.0										
677	8500	5.76	16,300	22	14,000	20 5	11,800	18.5								
717	9000	6.46	19,400	29	17,300	27	15,200	25	13,100	22.5						
757	9500	7.20	22,400	37	20,500	35	18,600	32	16,600	30	12,700	25				
797	10000	7.98	25,200	45	23,600	43	21,900	41	19,900	38	16,100	33	12,300	28		
837	10500	8.78	27,800	54	26,400	52	24,800	50	23,100	47	19,500	43	15,900	37		
877	11000	9.71	30,200	64	28,900	62	27,500	60	25,900	58	22,800	52	19,500	47	16,000	41
914	11500	10.6	32,500	74	31,400	72	30,000	70	28,600	68	25,900	64	22,800	58	19,800	52
952	12000	11.5	34,800	84	33,700	82	32,400	82	31,100	78	28,800	74	25,900	70	23,100	64
993	12500	12 5	37,000	98	36,000	96	34,800	92	33,600	90	31,400	86	28,800	82	26,000	76
1030	13000	13.5	39,200	110	38,200	110	37,200	105	36,100	105	33,900	100	31,400	96	28,900	90
1073	13500	14 5							38,500	120	36,400	115	34,200	110	31,800	105
1112	14000	15.7									38,800	130	36,800	125	34,600	120
1153	14500	16.8									41,200	150	39,400	145	37,300	140
1193	15000	18									43,600	165	42,000	160	40,000	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs.per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
914	11500	10 6	16,000	46												
952	12000	11 5	19,800	58	16,600	52										
993	12500	12 5	23,300	70	20,000	64	16,900	58								
1030	13000	13 5	26,400	84	23,500	78	20,500	72	17,500	66						
1073	13500	14 5	29,400	100	26,000	94	23,900	88	21,400	80	18,300	74				
1112	14000	15 7	32,300	115	29,700	110	27,100	105	24,800	98	22,000	90	19,200	82		
1153	14500	16 8	35,200	135	32,700	125	30,400	120	28,000	115	25,000	110	22,900	100	20,000	92
1193	15000.	18	38,100	150	35,800	145	33,500	140	31,100	135	28,600	125	26,300	120	23,700	110

Single Inlet

90" Steel Plate Planing Mill Exhauster—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
255	3600	1.03	5,980	1.70												
269	3800	1.15	7,760	2.30												
284	4000	1.28	9,500	3.00												
297	4200	1.41	11,000	3.65												
311	4400	1.54	12,500	4.4	7,200	3.1										
325	4600	1.69	14,000	5.2	9,060	4.0										
339	4800	1.84	15,300	6.2	10,800	5.0										
354	5000	2.00	16,600	7.2	12,400	6.0										
372	5250	2.20	18,000	8.5	14,400	7.4	9,920	5.8								
390	5500	2.42	19,500	10.0	16,100	8.9	12,100	7.4								
407	5750	2.54	20,700	11.0	17,800	10.0	14,200	8.9								
425	6000	2.87	22,300	13.5	19,500	12.0	16,000	11.0	12,200	9.1						
442	6250	3.12	23,600	16	21,600	14.5	18,100	13.0	14,400	11.0						
460	6500	3.38	24,800	18	22,400	16.5	19,800	14.5	16,400	13.5	12,800	11.5				
477	6750	3.63	26,100	20	23,900	18.5	21,400	17.5	18,400	15.5	14,900	13.5				
495	7000	3.91	27,300	23	25,400	21	23,000	19.5	20,100	18.0	17,100	16.5	13,600	14.0		
532	7500	4.50	29,600	29	28,000	27	26,000	25	23,600	23.5	20,900	22	17,800	19.5	14,700	17.5
566	8000	5.11			30,600	33	28,800	31	26,800	30	24,400	28	21,800	26	18,900	24
601	8500	5.76			33,100	41	31,500	39	29,700	37	27,700	35	25,400	33	22,800	31
636	9000	6.46			35,300	49	34,100	47	32,500	45	30,700	43	28,700	41	26,400	39
672	9500	7.20			37,800	58	36,600	56	35,300	54	33,600	52	31,900	50	29,800	47
708	10000	7.98			40,100	68	39,000	66	37,800	64	36,500	62	34,800	60	33,100	58

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
530	7500	4.50	11,500	14.5												
566	8000	5.11	16,100	21	13,200	18.5										
602	8500	5.76	20,200	28	17,400	26	14,600	23								
637	9000	6.46	24,100	36	21,500	34	18,900	31	16,400	28						
672	9500	7.20	27,800	46	25,500	43	23,100	40	20,600	37	15,800	31				
708	10000	7.98	31,300	56	29,400	54	27,200	50	24,800	48	20,000	42	15,400	35		
744	10500	8.78	34,600	66	32,800	64	30,900	62	28,800	58	24,300	54	19,800	46		
780	11000	9.71	37,600	78	36,000	76	34,200	74	32,300	72	28,400	66	24,200	58	19,900	50
812	11500	10.6	40,500	92	39,100	90	37,300	88	35,600	84	32,300	78	28,400	72	24,600	66
850	12000	11.5	43,300	105	42,000	105	40,300	100	38,600	98	35,800	92	32,200	86	28,800	80
884	12500	12.5	46,000	120	44,800	120	43,300	115	41,900	115	39,000	110	35,800	105	32,400	96
920	13000	13.5	48,800	140	47,600	135	46,300	130	45,000	130	42,200	125	39,200	120	36,000	110
955	13500	14.5							48,000	150	45,300	145	42,500	140	39,500	130
990	14000	15.7									48,300	165	45,900	160	43,000	150
1025	14500	16.8									51,300	185	49,000	180	46,500	175
1060	15000	18									54,300	205	52,300	200	49,800	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.73 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
812	11500	10.6	19,900	58												
850	12000	11.5	24,700	72	19,900	64										
884	12500	12.5	29,000	88	24,900	80	21,000	72								
920	13000	13.5	32,800	105	29,200	96	25,500	90	21,800	82						
955	13500	14.5	36,600	125	33,100	115	29,700	110	26,700	100	22,800	90				
990	14000	15.7	40,200	145	37,000	135	33,700	130	30,900	120	27,400	110	23,900	100		
1025	14500	16.8	43,800	165	40,700	160	37,800	150	34,800	145	31,600	135	28,500	125	24,900	115
1060	15000	18	47,400	190	44,500	180	41,700	175	38,600	165	35,600	155	32,800	150	29,500	140

Single Inlet 100" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
229	3600	1.03	7,250	2.10												
242	3800	1.15	9,420	2.80												
254	4000	1.28	11,500	3.60												
268	4200	1.41	13,400	4.45												
280	4400	1.54	15,100	5.4	8,710	3.75										
293	4600	1.69	17,000	6.3	11,000	4.85										
306	4800	1.84	18,500	7.5	13,100	6.0										
318	5000	2.00	20,100	8.8	15,100	7.3										
334	5250	2.20	21,800	10.5	17,400	9.0	12,000	7.0								
350	5500	2.42	23,600	12.0	19,600	11.0	14,700	9.0								
366	5750	2.51	25,000	13.5	21,600	12.5	17,200	11.0								
382	6000	2.87	27,000	16.5	23,600	15.0	19,500	13.0	14,800	11.0						
393	6250	3.12	28,600	19.5	25,500	17.5	21,900	15.5	17,400	13.5						
414	6500	3.38	30,100	22.0	27,200	20.5	24,000	18	19,900	16	15,500	13.5				
430	6750	3.63	31,600	24.5	29,000	22.5	25,900	21	22,300	19	18,100	16.5				
446	7000	3.91	33,100	28	30,800	26	27,900	24	24,400	22	20,800	20	16,500	17		
477	7500	4.50	35,900	35	34,000	33	31,600	31	28,700	29	25,300	26	21,600	24	17,900	21
510	8000	5.11			37,200	41	35,000	38	32,500	36	29,600	34	26,400	32	23,000	29
541	8500	5.76			40,100	49	38,200	47	36,000	45	33,600	42	30,800	40	27,600	37
574	9000	6.46			42,900	60	41,400	56	39,400	54	37,200	52	34,800	50	32,000	47
605	9500	7.20			45,800	70	44,300	68	42,900	66	40,800	62	38,700	60	36,200	58
637	10000	7.98			48,800	84	47,300	80	45,900	78	44,200	71	42,200	72	40,100	70

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 4½" Water 2.61 ozs. per sq.inch		Static Pressure 5" Water 2.89 per ozs. sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pessure 9" Water 5.2 ozs. per sq. inch	
478	7500	4.50	13,900	17.5												
509	8000	5.11	19,500	26	16,100	22.5										
542	8500	5.76	24,600	34	21,100	31	17,800	28								
573	9000	6.46	29,200	41	26,000	41	23,000	38	19,800	34						
605	9500	7.20	33,800	56	31,000	52	28,100	49	25,000	45	19,200	38				
637	10000	7.98	38,000	68	35,600	66	33,000	62	30,000	58	24,300	50	18,700	42		
669	10500	8.78	42,000	80	39,800	78	37,500	76	34,800	72	29,500	64	24,000	56		
702	11000	9.71	45,700	96	43,700	94	41,500	90	39,200	86	34,500	80	29,400	72	24,200	62
733	11500	10.6	49,100	110	47,500	110	45,300	105	43,200	100	39,200	96	34,500	88	29,800	80
765	12000	11.5	52,500	130	51,000	125	49,000	120	46,900	120	43,500	115	39,100	105	34,900	98
797	12500	12.5	55,800	145	54,500	145	52,500	140	50,800	135	47,400	130	43,500	125	39,300	115
828	13000	13.5	59,200	165	57,700	165	56,100	160	54,500	155	51,200	150	47,500	145	43,600	135
860	13500	14.5							58,200	180	55,000	175	51,600	165	48,000	160
892	14000	15.7									58,600	200	55,600	190	52,200	185
924	14500	16.8									62,300	225	59,500	220	56,300	210
955	15000	18									65,900	250	63,400	245	60,500	235

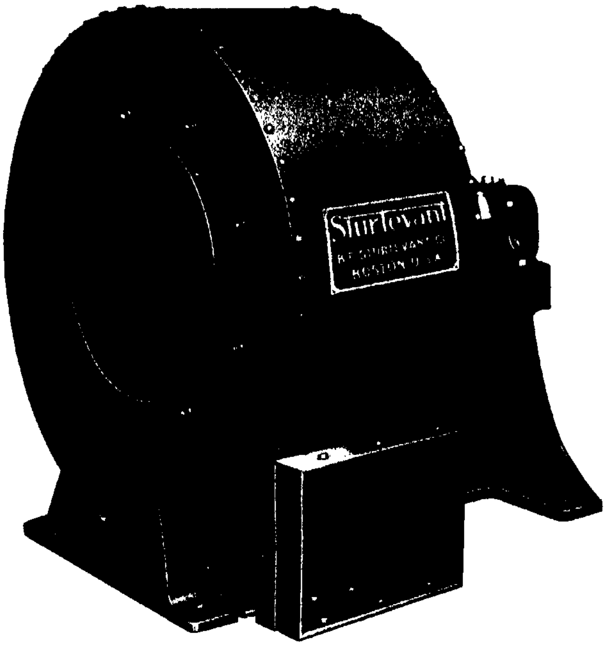
R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch		Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch	
733	11500	10.6	24,200	70												
765	12000	11.5	29,900	88	24,200	78										
797	12500	12.5	35,200	105	30,200	96	25,500	88								
828	13000	13.5	39,800	125	35,500	115	31,000	110	26,500	98						
860	13500	14.5	44,400	150	40,200	140	36,000	130	32,300	120	27,700	110				
892	14000	15.7	48,800	175	44,800	165	40,900	160	37,500	145	33,300	135	29,000	125		
924	14500	16.8	53,200	200	49,400	190	45,800	185	42,200	175	38,400	165	34,500	150	30,200	140
955	15000	18	57,500	230	54,000	220	50,600	210	46,900	200	43,200	190	39,700	180	35,700	170

SLOW SPEED LOW POWER PLANING MILL EXHAUSTER

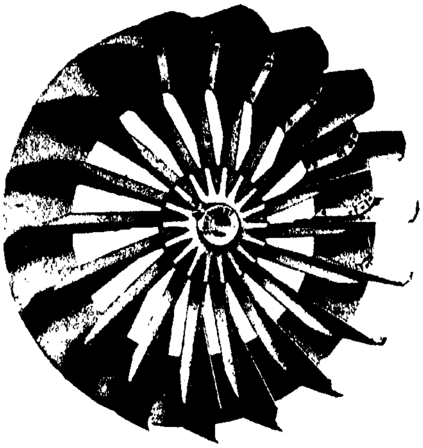
Design 6

Dimensions, Capacities, Horse Powers

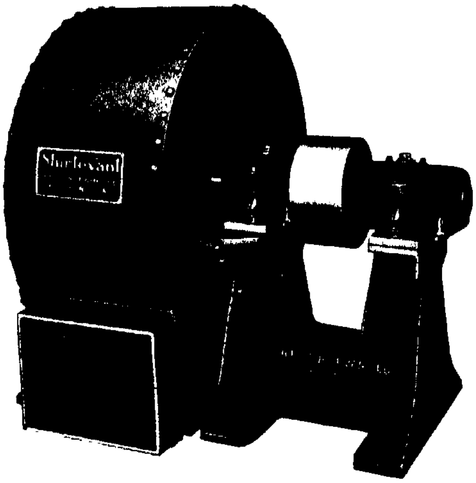
Slow Speed Planing Mill Exhauster — Design 6



Design 6 Single Slow Speed Low Power Planing Mill Exhauster, Right Hand Bottom Horizontal Discharge



Design 6 Slow Speed Low Power Planing Mill Exhauster Wheel



Design 6 Single Slow Speed Low Power Planing Mill Exhauster, Right Hand Bottom Horizontal Discharge

SLOW SPEED LOW POWER PLANING MILL EXHAUSTER—DESIGN 6

SPECIFICATIONS

Contractor shall furnish one Sturtevant No. . . . . .Design 6, Slow Speed Low Power Exhauster. It shall have an inlet . . . . . . inches in diameter, an outlet . . . . inches x . . .inches. It shall be convertible and reversible as to hand and discharge. It shall contain a blast wheel inches in diameter, comprising eighteen floats each carried on a steel T-arm cast into a central hub, these blades to be tilted forwardly in the direction of rotation at their outer edges. The blades shall be connected only at their rear or edges most remote from the fan inlet, with an annular back plate. The floats shall be made of No. . . . . gauge.

Housing. The housing shall be of the convertible and reversible type made up of steel side sheets secured to cast-iron inlet and cone side plates by tap bolts threaded into an annular ring riveted to the steel side sheet.

The roundabout or scroll sheet shall be secured to the scroll angles by bolts so as to be easily replaced if necessary. The scroll angles shall be riveted to the outer side of the side sheets. Rivets and bolts shall be spaced either 5 inches or 2½ inches on centers as may be most desirable for the work in question.

Hanger. The hanger shall be of grey iron fastened to the cone side plate by tap bolts and of the design shown in the illustration herewith. It shall be machined at the top to receive the bearings.

Bearings. The bearings shall consist of a cast-iron housing which in itself forms an oil reservoir and mounted within which are split sleeves lined with the best grade of Sturtevant white metal. These sleeves shall be mounted in a spherical seat so as to be self-aligning in all directions. Oiling shall be by two oil rings dipping into the reservoir. Combination thrust and oil wiper collars shall be provided for both ends of each bearing. Bearing housings shall be recessed at either end and fitted with felt washers. Sight glasses shall be inserted in the bearing housings. The filler cap shall be so located as to prevent an excess of oil being carried in the reservoir. The bearing housing shall be machined where it bolts to the hanger and shall be secured thereto by two bolts of ample size.

SLOW SPEED LOW POWER PLANING MILL EXHAUSTER—DESIGN 6

EXPLANATION OF SPECIFICATION REQUIREMENTS

Design 6, Slow Speed Low Power Exhauster is the most efficient fan of its type on the market. It is designed for very large capacity and relatively low rotative speed. It is unique in that it occupies less space for a given volumetric capacity than any other fan generally used for the same class of work.

Housing. The Convertible and Reversible feature enables the fan to be changed to any hand or discharge by removing a few bolts, turning the casing around and replacing the bolts.

Hanger. The hanger is "low-cut" so that a large pulley can be used if desired. This hanger also permits the use of a belt coming up from below at a sharp angle.

Slow Speed Low Power Planing Mill Exhauster—Design 6

EXPLANATION OF TABLES

The capacities of these fans are measured in a pipe the size of the fan inlet and upon the inlet side of the fan, with outlet also connected to a pipe of the same size by a taper transformation piece.

The tables are made upon this basis because fans used for conveying are usually piped in this manner.

Other than the above the information contained in the general explanation of tables shown at the front of this book applies.

Slow Speed Low Power Planing Mill Exhauster — Design 6

APPROXIMATE WEIGHTS

Size	Single	Double
30	1825	2800
35	2250	3475
40	3387	4925
45	4050	6275
50	5375	8175

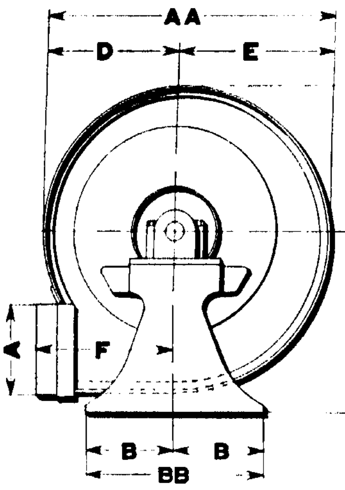
Single Inlet **Single Width**

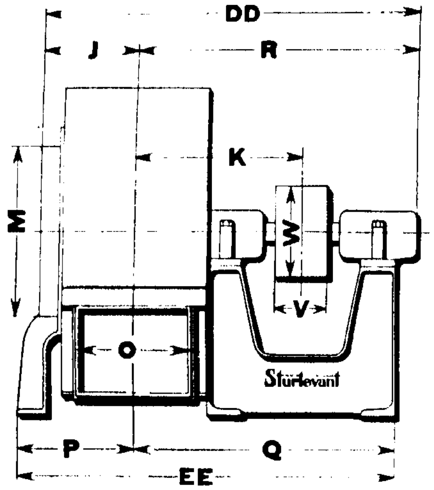
Slow Speed Low Power Planing Mill Exhauster—Design 6

Full Housing **Overhung Wheel**

Bottom Horizontal Discharge

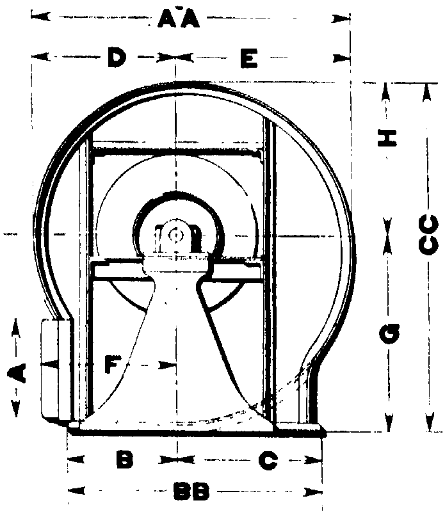
Sizes 30 to 70 Convertible

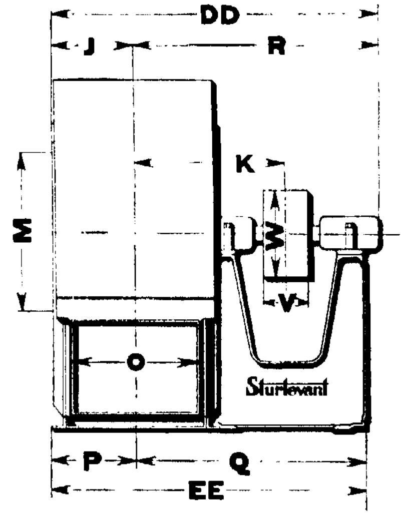




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	13⅝	15⅝	14	18	14⅛	8⅛	16⅞	16⅛	12	10⅛	26⅛	28⅝	5¼	9	29¼	18	32⅛	36¾	36¼	24	1⅜	½
35	11	10½	15⅝	18¾	16⅛	21	16⅝	9¾	18⅞	18⅛	14	11⅝	29⅜	31¼	5½	10	34⅜	21	37⅝	41	41	28	1½	⅝
40	12	12	17¾	21¾	17¼	23¾	18¼	10¼	20½	20⅛	16	12¾	31¾	34	5½	11	39½	24	42	44¼	44½	32	1 11/16	¾
45	14	13½	20	24	19⅞	27	21	11¼	22⅞	22⅛	18	14	35½	38¼	5½	13	44	27	48	49½	49½	36	1 15/16	¾
50	15	15	22	26½	21⅜	30	23⅝	12¾	25⅜	24⅛	20	15¼	39	42¾	8¼	13	48½	30	53⅝	55½	54¼	40	1 15/16	¾
55	17	16½	22¼	29⅝	24¼	33	26	13¾	27¼	26¼	22	17	42¼	46½	8¾	15	51⅞	33	59	60¼	59¼	44	2 3/16	⅞
60	18	18	26⅞	32⅛	26⅛	36	28¼	15	29¾	28¼	24	18¾	45¼	50½	10½	15	59	36	64¼	65½	64	48	2 3/16	⅞
70	21	21	30¼	37	29⅜	42	32¼	17¼	33	33¼	28	20¾	50¼	55¼	11¼	16	67¼	42	74¼	72½	71	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Dia.	Anchor Bolts
80	24	26⅛	35	35¼	42¼	33¼	48	36⅛	18¾	35½	38¼	32	19¼	55¼	59⅛	12½	20	77½	61⅛	84⅛	77⅞	74½	64	2 11/16	1
90	27	30⅛	40	39¾	48¼	37⅛	54	41⅞	20¾	39¾	43¼	36	21¼	61¾	65⅝	13½	24	88	70⅛	95⅞	86⅜	83	72	2 15/16	1

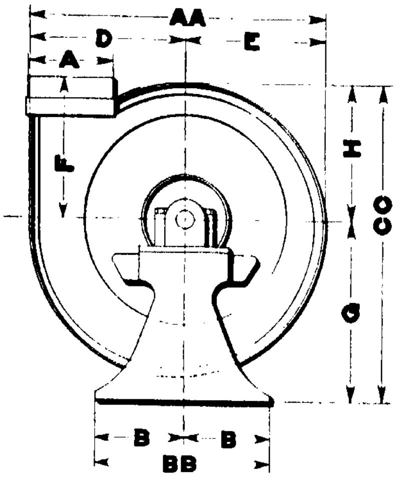
Single Inlet **Single Width**

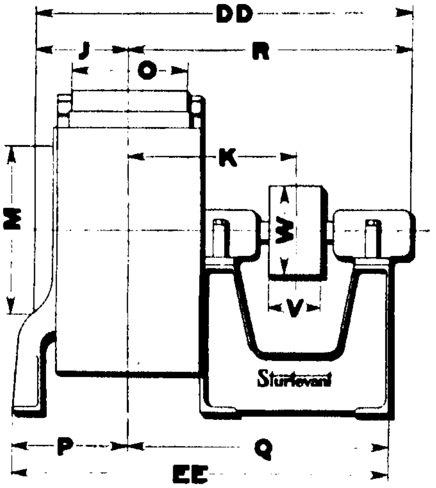
Full Housing **Overhung Wheel**

Slow Speed Low Power Planing Mill Exhauster—Design 6

Up Blast Discharge

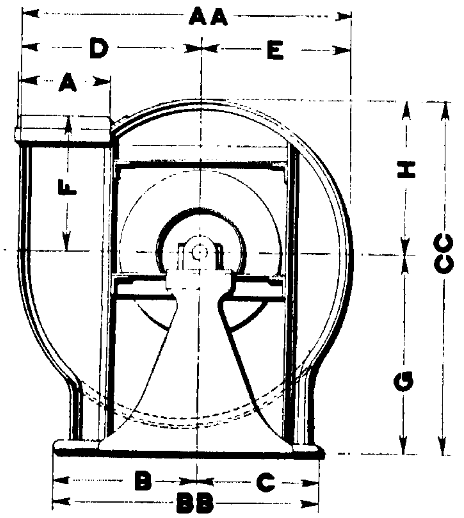
Sizes 30 to 70 Convertible

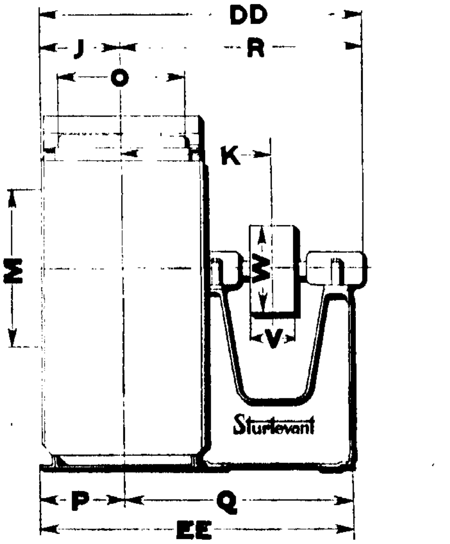




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	16⅛	14⅛	14	18	13⅜	8⅛	16⅞	16⅛	12	10⅜	26⅜	28⅝	5¼	9	30¼	18	31⅜	36¾	36¾	24	1⅜	½
35	11	10½	19⅛	16⅝	16⅛	21	15⅝	9⅜	18⅞	18⅛	14	11⅝	29⅜	31⅝	5½	10	35¾	21	36⅝	41	41	28	1½	⅝
40	12	12	22¾	18¾	17¼	23¼	17¾	10¼	20½	20⅛	16	12¾	31¾	34	5½	11	41½	24	41	44¼	44½	32	1 11/16	¾
45	14	13½	25	21	19¾	27	20	11½	22⅞	22⅛	18	14	35½	38¼	5½	13	46	27	47	49¾	49½	36	1 13/16	¾
50	15	15	27⅝	23⅛	21⅜	30	22	12¾	25⅜	24⅛	20	15¾	39	42¾	8¼	13	50¾	30	52	55½	54¾	40	1 15/16	¾
55	17	16½	30¾	26	24⅛	33	24¾	13¾	27¼	26¼	22	17	42¾	46½	8¼	15	56¾	33	57¾	60¼	59¾	44	2 3/16	⅞
60	18	18	33¼	28¼	26⅛	36	26⅞	15	29¾	28¼	24	18¼	45¾	50½	10½	15	61½	36	62⅞	65½	64	48	2 3/16	⅞
70	21	21	38¼	32¾	29½	42	30¾	17¼	33	33¼	28	20¾	50¼	55¼	11¼	16	71	42	72¾	72½	71	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Dia.	Anchor Bolts
80	24	35	29	44⅜	36⅛	33¼	48	35⅛	18¾	35½	38¼	32	19¼	55¼	59⅛	12½	20	80½	64	83⅛	77⅞	74½	64	2 11/16	1
90	27	40	33	50⅝	41⅞	37⅛	54	39¾	20¾	39¾	43¼	36	21¼	61¾	65⅞	13½	24	92½	73	93¾	86⅝	83	72	2 15/16	1

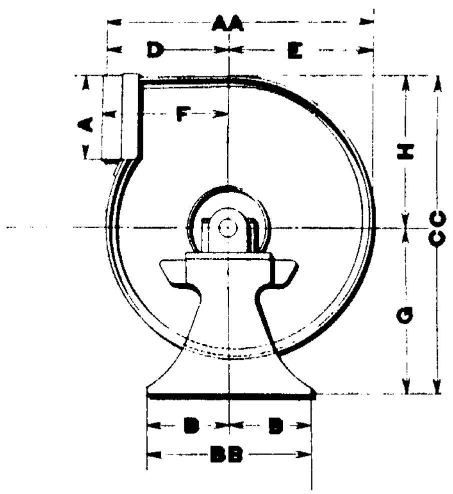
Single Inlet **Full Housing**

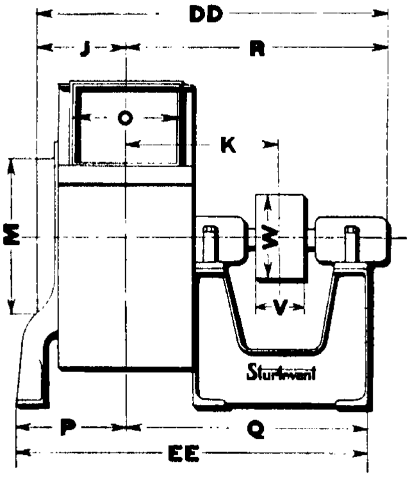
Slow Speed Low Power Planing Mill Exhauster — Design 6

Single Width **Overhung Wheel**

Top Horizontal Discharge

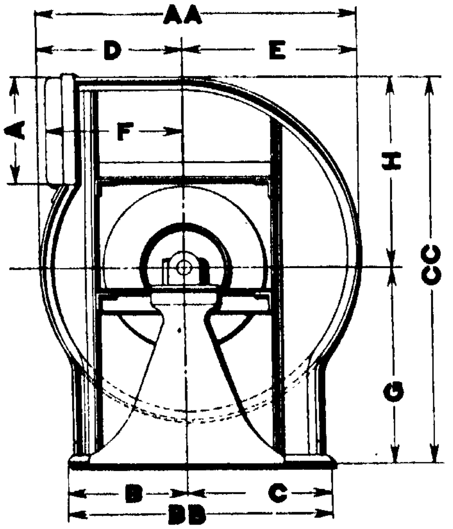
Sizes 30 to 70 Convertible

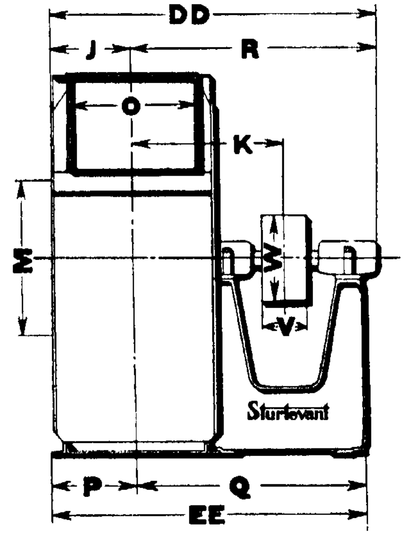




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	13⅜	15⅞	14	18	16⅛	8⅛	16⅞	16⅛	12	10⅜	26⅜	28⅝	5¼	9	29¼	18	34⅛	36¾	36¾	24	1⅜	½
35	11	10½	15⅝	18¾	16⅛	21	19⅛	9⅝	18⅞	18⅛	14	11⅝	29⅜	31⅜	5½	10	34⅜	21	40⅛	41	41	28	1½	⅝
40	12	12	17¾	21¾	17¼	23¼	22¾	10¼	20½	20⅛	16	12¾	31¾	34	5½	11	39½	24	46	44¼	44½	32	1 11/16	¾
45	14	13½	20	24	19⅞	27	25	11½	22⅞	22⅛	18	14	35½	38¼	5½	13	44	27	52	49¾	49½	36	1 15/16	¾
50	15	15	22	26½	21⅜	30	27⅞	12¾	25⅜	24⅛	20	15¾	39	42¾	8¼	13	48½	30	57⅞	55½	54¾	40	1 15/16	¾
55	17	16½	24¾	29⅝	24⅛	33	30¾	13¾	27¼	26¼	22	17	42¾	46½	8¼	15	54⅜	33	63¾	60¼	59¾	44	2 3/16	⅞
60	18	18	26⅞	32⅛	26⅛	36	33¼	15	29¾	28¼	24	18¼	45¾	50½	10½	15	59	36	69¼	65½	64	48	2 3/16	⅞
70	21	21	30¾	37	29⅜	42	38¾	17¼	33	33¼	28	20¾	50¼	55¼	11¼	16	67¾	42	80¾	72½	71	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Dia.	Shaft Dia.	Anchor Bolts
80	24	29	35	35¼	42¼	33¼	48	44⅜	18¼	35½	38¼	32	19¼	55¼	59⅛	12½	20	77½	64	92⅜	77⅜	74½	64	2 11/16	1
90	27	33	40	39¾	48¼	37¼	54	50⅜	20¾	39¾	43¼	36	21¾	61¼	65⅞	13½	24	88	73	104⅜	86⅝	83	72	2 15/16	1

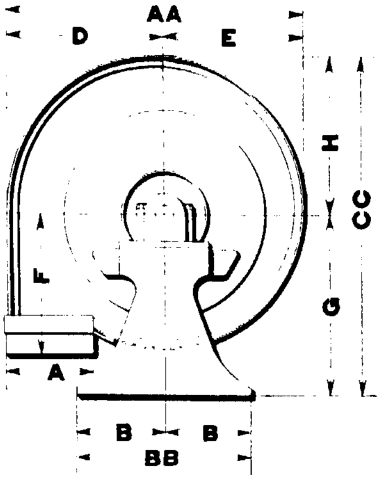
Single Inlet **Full Housing**

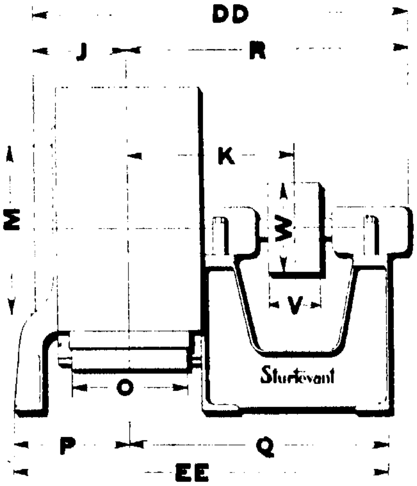
Slow Speed Low Power Planing Mill Exhauster—Design 6

Single Width **Overhung Wheel**

Down Blast Discharge

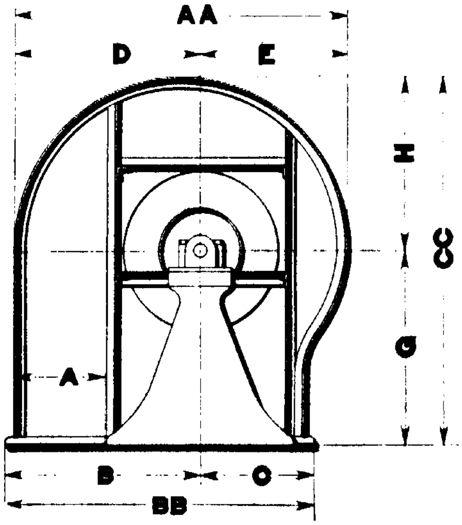
Sizes 30 to 70 Convertible

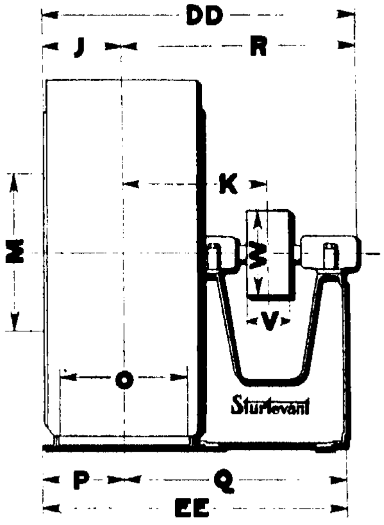




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	16⅛	11⅜	14	18	15⅞	8⅛	16⅞	16⅛	12	10⅜	26⅜	28⅛	5¼	9	30¼	18	33⅞	36¼	36¼	24	1⅜	½
35	11	10½	19⅝	16⅛	16⅛	21	18¼	9⅜	18⅞	18⅛	14	11⅝	29⅜	31⅝	5¼	10	35¼	21	39¼	41	41	28	1½	⅝
40	12	12	22¼	18¼	17¼	23¼	21¾	10¼	20½	20⅛	16	12¾	31¾	34	5½	11	41½	24	45	44¼	44½	32	1 11/16	¾
45	14	13½	25	21	19⅞	27	24	11¼	22⅞	22⅛	18	14	35½	38¼	5½	13	46	27	51	49½	49½	36	1 15/16	¾
50	15	15	27⅝	23⅝	21⅛	30	26½	12¾	25⅜	24⅛	20	15¼	39	42¾	8¼	13	50¼	30	56½	55½	54¼	40	1 15/16	¾
55	17	16½	30¾	26	24⅛	33	29⅝	13¾	27¼	26¼	22	17	42¼	46½	8¼	15	56¼	33	62⅝	60¼	59¼	44	2 3/16	⅞
60	18	18	33¼	28¼	26⅛	36	32⅛	15	29¾	28¼	24	18¼	45¾	50½	10½	15	61½	36	68⅛	65½	64	48	2 3/16	⅞
70	21	21	38¼	32¼	29⅛	42	37	17¼	33	33¼	28	20¾	50¼	55¼	11¼	16	71	42	79	72½	71	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
80	23	47⅞	29	44⅜	36⅞	48	42⅜	18¾	35½	38¼	31	19¼	55¼	59⅛	12½	20	80½	76¼	90⅜	77⅞	74½	64	2 11/16	1
90	26	53¼	33	50⅜	41¾	54	48¼	20¾	39¾	43¼	35	21¼	61¾	65⅞	13½	24	92¼	86⅞	102¼	86⅝	83	72	2 15/16	1

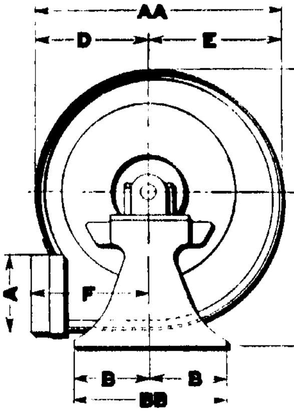
Single Inlet **Double Width**

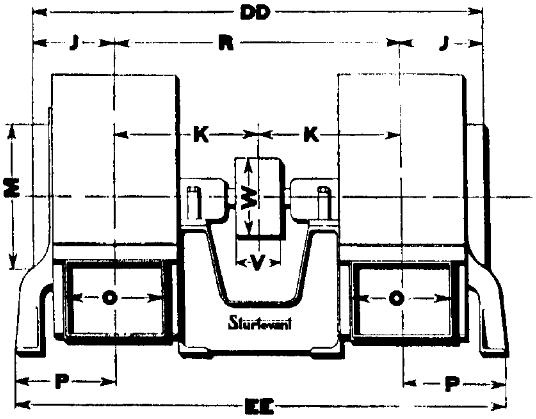
Double Slow Speed Low Power Planing Mill Exhauster—Design 6

Full Housing **Overhung Wheel**

Bottom Horizontal Discharge

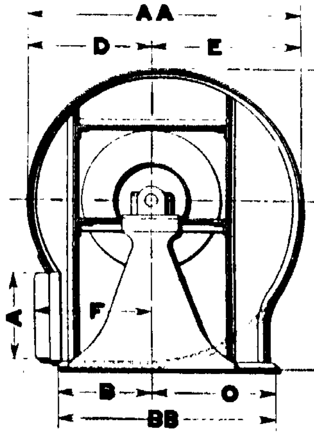
Sizes 30 to 70 Convertible

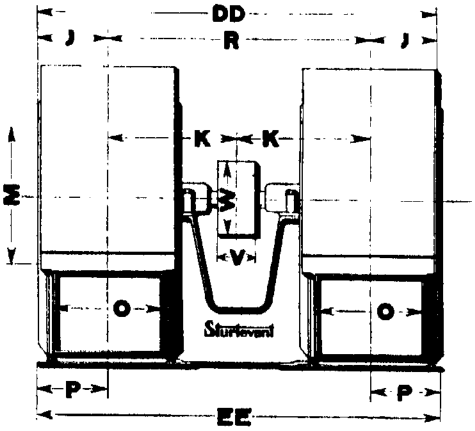




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	13⅝	15⅞	14	18	14¼	8⅛	16⅞	16⅛	12	10⅜	33¼	6½	10	29¼	18	32⅛	50	54½	24	1⅜	½
35	11	10½	15⅜	18⅞	16⅛	21	16⅝	9⅜	18⅞	18⅛	14	11⅞	37¾	7	11	31⅝	21	37⅝	56½	61	28	1½	⅝
40	12	12	17¾	21⅞	17¼	23¼	18¾	10¼	20⅛	20⅛	16	12¾	41	7½	12	39½	24	42	61½	66½	32	1 11/16	¾
45	14	13½	20	24	19⅞	27	21	11½	22⅞	22⅛	18	14	45¼	8	13	44	27	48	68¾	73¼	36	1 13/16	¾
50	15	15	22	26½	21⅝	30	23⅛	12¾	25⅛	24⅛	20	15¾	50¾	8½	14	48½	30	53⅛	76¼	82¼	40	1 15/16	¾
55	17	16½	24¾	29⅝	24⅛	33	26	13¾	27¾	26¼	22	17	55½	9	15	54⅝	33	59	83	89½	44	2 3/16	⅞
60	18	18	26⅞	32⅛	26⅛	36	28¼	15	29¾	28¼	24	18¼	59½	12½	20	59	36	64¼	89½	96	48	2 3/16	⅞
70	21	21	30¼	37	29⅛	42	32¼	17¼	33	33¼	28	20¾	66	13½	24	67¼	42	74¼	100½	107½	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
80	24	26⅝	35	35¼	42⅞	33¼	48	36⅞	18¾	35½	38¼	32	19¼	71	14½	26	77½	61⅝	84⅞	108½	109½	64	2 11/16	1
90	27	30⅜	40	39¾	48¾	37⅛	54	41⅞	20¾	39⅞	43¼	36	21¼	79½	16½	30	88	70⅛	95¾	121	122	72	2 15/16	1

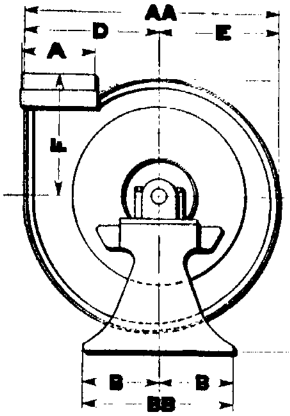
Single Inlet **Full Housing**

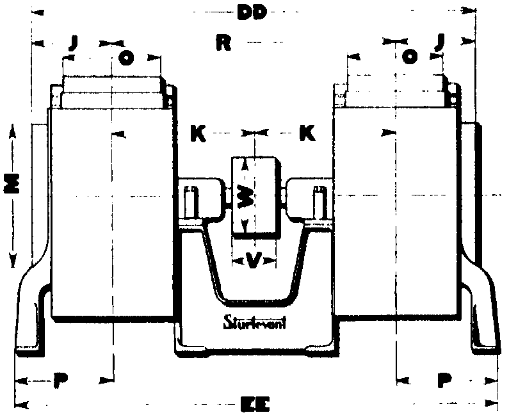
Double Slow Speed Low Power Planing Mill Exhauster—Design 6

Double Width **Overhung Wheel**

Up Blast Discharge

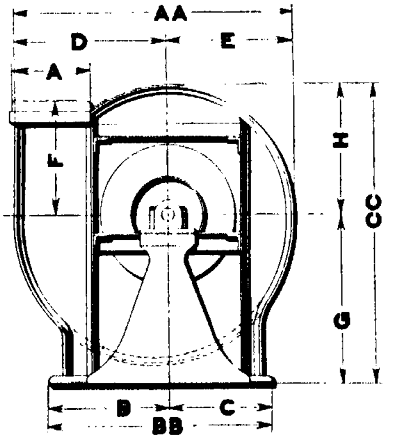
Sizes 30 to 70 Convertible

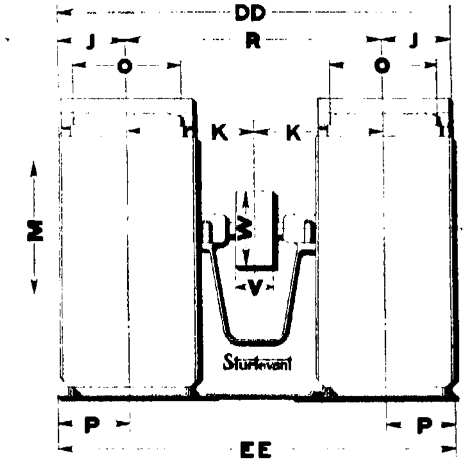




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	16⅝	14⅛	14	18	13⅞	8¼	16⅞	16⅝	12	10¾	33¾	6½	10	30¾	18	31⅞	50	51½	21	1⅜	½
35	11	10½	19⅛	16⅛	16¼	21	15⅜	9⅜	18⅞	18⅝	11	11¾	37¼	7	11	35¼	21	36⅜	56½	61	28	1½	⅝
40	12	12	22¼	18¾	17¼	23¼	17¾	10¾	20½	20⅝	16	12¼	44	7½	12	41	24	41	61½	66½	32	1 11/16	¾
45	14	13½	25	21	19⅞	27	20	11½	22⅞	22⅝	18	14	45¼	8	13	46	27	47	68¾	73¼	36	1 15/16	¾
50	15	15	27⅜	23⅛	21⅜	30	22	12¾	25⅝	24⅝	20	15¾	50¼	8½	14	50½	30	52	76½	82¼	40	1 15/16	¾
55	17	16½	30¼	26	24⅜	33	24¼	13¼	27¼	26¼	22	17	55½	9	15	56¼	33	57¼	83	89½	44	2 3/16	⅞
60	18	18	33¼	28¼	26⅝	36	26⅞	15	29¼	28¼	24	18¼	59½	12½	20	61½	36	62⅞	89½	96	48	2 3/16	⅞
70	21	21	38¾	32¼	29⅜	42	30¼	17¼	33	33¼	28	20¼	66	13½	24	71	42	72¼	100½	107½	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Dia	Shaft Diameter	Anchor Bolts
•80	24	35	29	44⅜	36⅞	33¼	48	35⅝	18¾	35½	38¼	32	19¼	71	11½	26	81¼	64	83⅝	108½	109½	64	2 11/16	1
90	27	40	33	50⅜	41⅞	37⅛	54	39¾	20¼	39¼	43¼	36	21¼	79½	16½	30	92¼	73	93¾	121	122	72	2 15/16	1

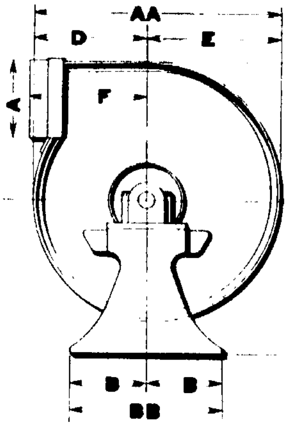
Single Inlet | **Double Width**

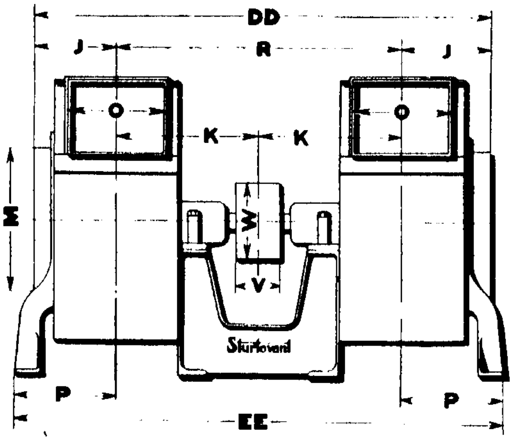
Full Housing | **Overhung Wheel**

Double Slow Speed Low Power Planing Mill Exhauster—Design 6

Top Horizontal Discharge

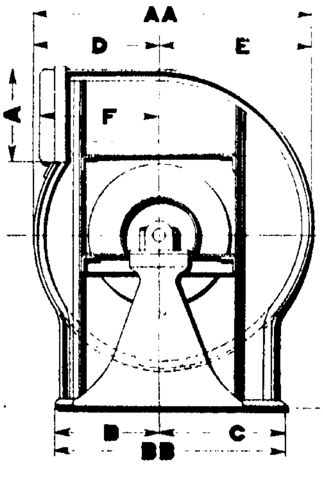
Sizes 30 to 70 Convertible

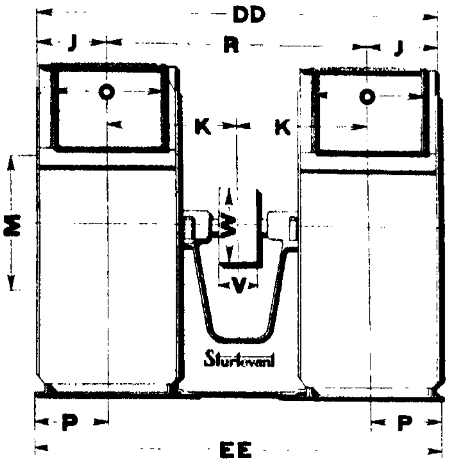




Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	13⅜	15⅝	11	18	16⅞	8⅝	16¼	16⅝	12	10⅝	33¼	6½	10	29¼	18	31⅜	50	51½	21	1⅜	½
35	11	10½	15⅝	18¼	16⅝	21	19 5/16	9⅝	18⅝	18⅝	11	11⅝	37¼	7	11	34⅝	21	40⅝	56½	61	28	1½	⅝
40	12	12	17¾	21¼	17¼	23¼	22¼	10¾	20½	20⅝	16	12¾	41	7½	12	39½	24	46	61½	66½	32	1 11/16	¾
45	14	13½	20	24	19¼	27	25	11¾	22⅞	22⅝	18	14	45¼	8	13	44	27	52	68¼	73¾	36	1 15/16	¾
50	15	15	22	26¼	21⅝	30	27⅝	12¾	25⅝	24⅝	20	15¼	50¼	8½	14	48½	30	57⅜	76¼	82¼	40	1 15/16	¾
55	17	16½	24¼	29⅝	24⅝	33	30¾	13¾	27¼	26¼	22	17	55½	9	15	54⅝	33	63¾	83	89½	44	2 3/16	⅞
60	18	18	26⅞	32⅝	26⅝	36	33¼	15	29¼	28¼	24	18¼	59½	12½	20	59	36	69¼	89½	96	48	2 7/16	⅞
70	21	21	30¼	37	29	42	38¼	17¼	33	33¼	28	20¼	66	13½	24	67¼	42	80¼	100½	107⅛	56	2 7/16	1

Sizes 80 and 90 Non-Convertible





Fan Size	A	B	C	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Dia.	Anchor Bolts
80	24	29	35	35½	42¼	33¼	48	44⅞	18¾	35½	38¼	32	19¼	71	14½	26	77½	64	92⅝	108½	109½	64	2 11/16	1
90	27	33	40	39¾	48¼	37⅛	54	50⅝	20¾	39¾	43¼	36	21¼	79½	16½	30	88	73	104⅝	121	122	72	2 15/16	1

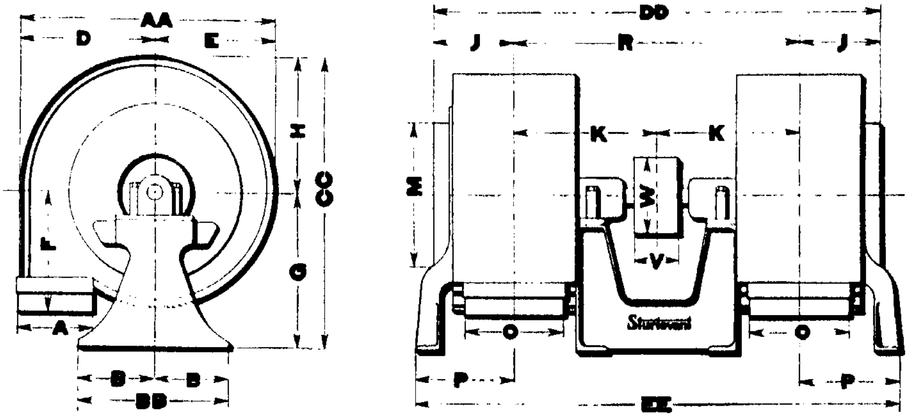
Single Inlet **Full Housing**

Double Slow Speed Low Power Planing Mill Exhauster—Design 6

Double Width **Overhung Wheel**

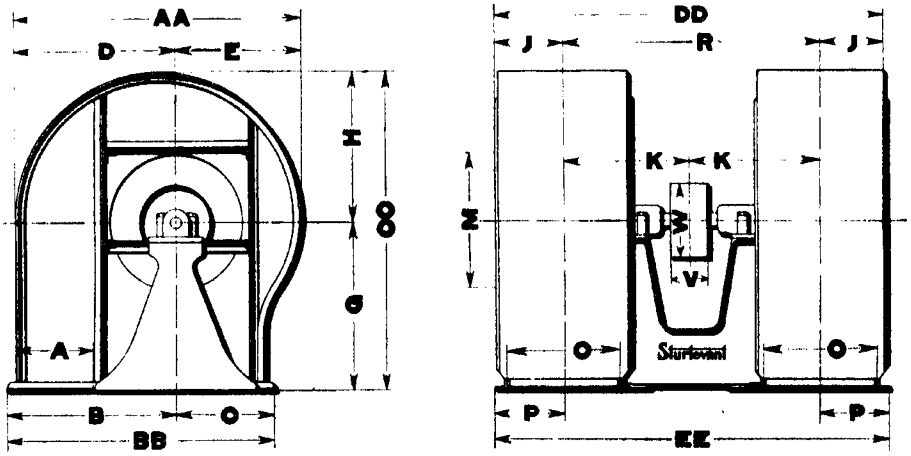
Down Blast Discharge

Sizes 30 to 70 Convertible



Fan Size	A	B	D	E	F	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
30	9	9	16⅛	11⅛	14	18	15⅞	8⅛	16⅞	16⅛	12	10⅛	33¾	6½	10	30½	18	33¾	50	54½	24	1⅞	½
35	11	10½	19⅝	16⅝	16⅛	21	18¾	9⅜	18⅞	18⅛	14	11⅝	37¼	7	11	35¾	21	39¾	56½	61	28	1½	⅝
40	12	12	22¾	18¾	17¼	23¼	21¾	10¼	20½	20⅛	16	12¾	41	7½	12	41½	24	45	61½	66½	32	1 11/16	¾
45	14	13½	25	21	19⅞	27	24	11½	22⅞	22⅛	18	14	45¾	8	13	46	27	51	68¾	73¾	36	1 13/16	¾
50	15	15	27⅜	23⅛	21⅜	30	26⅛	12¾	25⅜	24⅛	20	15¼	50¾	8½	14	50¼	30	56½	76¼	82¼	40	1 15/16	¾
55	17	16½	30¼	26	24⅛	33	29⅝	13¼	27¾	26¼	22	17	55½	9	15	56¾	33	62⅝	83	89½	44	2 3/16	⅞
60	18	18	33¼	28¼	26¼	36	32⅛	15	29¾	28¼	24	18¼	59½	12½	20	61½	36	68½	89½	96	48	2 3/16	⅞
70	21	21	38¼	32¼	29¼	42	37	17½	33	33¼	28	20¼	66	13½	24	71	42	79	100½	107½	56	2 7/16	1

Sizes 80 and 90 Non-Convertible



Fan Size	A	B	C	D	E	G	H	J	K	M	O	P	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
80	23	47⅞	29	44⅜	36⅞	48	42⅝	18¾	35¼	38¼	31	19¼	71	14½	26	81¼	76⅞	90⅞	108½	109½	64	2 11/16	1
90	26	53⅞	33	50⅜	41⅞	54	48¼	20¾	39¾	43¼	35	21¼	79½	16½	30	92¼	86⅞	102¼	121	122	72	2 15/16	1

Single Inlet

No. 30 Slow Speed Low Power Planing Mill Exhauster Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water .867 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
575	3600	1.39	1,720	0.53												
605	3800	1.55	2,130	0.75												
640	4000	1.71	2,140	0.96	294	0.23										
670	4200	1.88	2,740	1.20	695	0.36										
700	4400	2.07	3,030	1.50	2,090	0.96										
730	4600	2.26	3,310	1.80	2,520	1.30	304	0.345								
765	4800	2.47	3,570	2.10	2,840	1.60	648	0.485								
795	5000	2.68	3,820	2.45	3,150	1.95	2,210	1.32								
835	5250	2.95	4,130	2.95	3,510	2.45	2,800	1.85	507	0.56						
875	5500	3.24	4,420	3.45	3,860	2.95	3,220	2.40	1,890	1.40						
915	5750	3.54	4,720	4.1	4,200	3.55	3,610	2.95	2,860	2.3	555	0.74				
955	6000	3.85	5,020	4.7	4,500	4.15	4,050	3.65	3,350	2.9	1,510	1.40	294	0.74		
995	6250	4.18	5,310	5.5	4,800	4.85	4,350	4.30	3,760	3.6	3,050	2.85	675	0.99		
1035	6500	4.52			5,150	5.6	4,650	4.95	4,150	4.3	3,550	3.65	2,100	2.65	430	9.70
1075	6750	4.81			5,450	6.4	5,000	5.7	4,550	5.1	3,920	4.3	3,220	3.45	755	1.25
1115	7000	5.21					5,350	6.7	4,850	6.0	4,350	5.3	3,820	4.35	2,740	3.2
1195	7500	6.02					5,950	8.6	5,550	7.9	5,080	7.2	4,700	6.4	4,100	5.3
1280	8000	6.85							6,150	10	5,800	9.4	5,350	8.6	4,900	7.7
1355	8500	7.74							6,800	13	6,400	12.0	6,050	11.0	5,650	10.5
1435	9000	8.67									7,050	14.5	6,700	14.0	6,350	13.0
1515	9500	9.66									7,600	18	7,300	17.0	7,000	16.0
1590	10000	10.7											7,900	20.5	7,650	20.0
1670	10500	11.8											8,550	21.5	8,250	23.5
1750	11000	12.9													8,850	28

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½″ Water 2.6 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 5½″ Water 3.18 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
1195	7500	6.02	3,300	4.40	840	1.75	347	1.45								
1280	8000	6.85	4,400	6.9	3,800	5.8	1,210	2.4	580	1.9						
1355	8500	7.74	5,250	9.4	4,800	8.4	4,100	6.9	2,750	4.8						
1435	9000	8.67	6,000	12.0	5,600	11.0	5,200	10.0	4,700	9.5	1,280	3.45				
1515	9500	9.66	6,700	15.5	6,350	11.5	6,000	13.5	5,600	12.5	4,550	10.5	1,100	3.55		
1590	10000	10.7	7,350	19.0	7,050	18	6,700	17	6,350	16	5,600	13.5	4,500	10.9	1,110	4.15
1670	10500	11.8	8,000	22.5	7,750	22	7,350	21	7,100	20	6,400	17.5	5,650	15	4,220	11.0
1750	11000	12.9	8,650	27	8,350	26	8,050	25	7,750	24	7,150	21.5	6,440	19	5,700	16.5
1830	11500	14.2	9,200	31	9,050	31	8,700	30	8,400	28	7,850	26	7,250	24	6,550	21
1910	12000	15.4			9,600	36	9,300	35	9,050	34	8,500	31	7,950	29	7,350	26
1990	12500	16.7			10,200	41	9,900	40	9,700	39	9,150	37	8,650	34	8,100	32
2070	13000	18.1					10,600	46	10,300	44	9,850	42	9,300	40	8,850	38
2150	13500	19.5							10,900	51	10,500	49	10,000	47	9,450	44
2230	14000	21.0									11,100	56	10,700	54	10,200	51
2310	14500	22.6											11,300	62	10,900	58
2390	15000	24.1											11,900	69	11,500	67

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.94 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
1590	10000	10.7														
1670	10500	11.8	1,015	4.5												
1750	11000	12.9	3,700	10.9	1,010	5.1										
1830	11500	14.2	5,800	18.5	3,400	11	1,140	6.2								
1910	12000	15.4	6,650	23.5	5,850	20	3,140	11.5	1,190	6.8	635	6.2				
1990	12500	16.7	7,500	29	6,860	26	6,110	23	3,260	13	1,320	7.9	743	6.9		
2070	13000	18.1	8,250	35	7,750	32	7,050	29	6,350	26	4,380	18	1,460	9		
2150	13500	19.5	9,000	41	8,450	38	7,950	35	7,320	32	6,600	29	5,050	22		
2230	14000	21.0	9,700	48	9,250	45	8,700	42	8,150	39	7,580	36	6,850	32		
2310	14500	22.6	10,400	56	10,000	53	9,500	50	8,950	47	8,460	44	7,850	40		
2390	15000	24.1	11,100	64	10,700	60	10,230	58	9,700	55	9,260	52	8,730	48		

Single Inlet

No. 35 Slow Speed Low Power Planing Mill Exhauster Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .867 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
490	3600	1.39	2,510	0.77												
520	3800	1.55	3,100	1.10												
545	4000	1.71	3,560	1.40	428	0.31										
573	4200	1.88	4,000	1.75	1,010	0.53										
600	4400	2.07	4,420	2.15	3,050	1.40										
628	4600	2.26	4,820	2.60	3,670	1.90	443	0.50								
655	4800	2.47	5,220	3.05	4,155	2.35	945	0.71								
680	5000	2.68	5,570	3.60	4,600	2.85	3,220	1.90								
715	5250	2.95	6,020	4.25	5,120	3.55	4,080	2.70	739	0.82						
750	5500	3.24	6,150	5.0	5,630	4.3	4,700	3.45	2,760	2.00						
785	5750	3.54	6,890	5.9	6,150	5.2	5,200	4.3	4,180	3.30	810	1.10				
820	6000	3.85	7,330	6.9	6,600	6.1	5,900	5.3	4,880	4.25	2,200	2.00	428	1.05		
850	6250	4.18	7,750	8	7,060	7.1	6,320	6.3	5,480	5.3	4,430	4.15	982	1.45		
885	6500	4.52			7,500	8.2	6,800	7.3	6,020	6.3	5,160	5.3	3,060	3.85	627	1.40
920	6750	4.81			7,920	9.3	7,200	8.3	6,610	7.5	5,710	6.3	•4,680	5.0	1,100	1.80
955	7000	5.24					7,770	9.8	7,080	8.8	6,330	7.6	5,500	6.4	4,000	4.65
1025	7500	6.02					8,650	12.6	8,060	11.5	7,410	10.5	6,840	9.3	6,000	7.7
1090	8000	6.85							9,000	15.0	8,410	13.5	7,810	12.5	7,110	11.0
1160	8500	7.71							9,910	18.5	9,320	17.0	8,800	16.0	8,210	15.0
1225	9000	8.67									10,300	21.5	9,800	20.0	9,210	19.0
1295	9500	9.66									11,200	26	10,700	21.5	10,200	23.5
1360	10000	10.7											11,600	30	11,200	29
1430	10500	11.8											12,500	35	12,100	34
1500	11000	12.9													12,900	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
1025	7500	6.02	4,800	6.5	1,230	2.5	506	2.1								
1090	8000	6.85	6,110	10.0	5,500	8.4	1,760	3.5	848	2.65						
1160	8500	7.74	7,660	14.0	6,970	12.5	5,980	10.0	4,000	7.0						
1225	9000	8.67	8,720	18.0	8,160	16.5	7,550	15.0	6,850	13.5	1,870	5.1				
1295	9500	9.66	9,800	22.5	9,260	21	8,720	19.5	8,160	18	6,630	14.5	1,600	5.2		
1360	10000	10.7	10,700	28	10,300	26	9,740	24.5	9,280	23	8,150	20.0	6,570	16	1,620	6
1430	10500	11.8	11,600	32	11,300	32	10,700	30	10,300	29	9,320	26.0	8,200	22	6,120	16
1500	11000	12.9	12,500	39	12,300	38	11,700	36	11,300	35	10,400	31.5	9,380	28	8,280	24
1570	11500	14.2	13,400	46	13,100	44	12,700	43	12,300	42	11,400	38	10,600	35	9,500	31
1640	12000	15.4			14,000	52	13,600	50	13,200	49	12,400	45	11,600	42	10,750	39
1700	12500	16.7			14,800	60	14,500	58	14,100	56	13,400	53	12,700	50	11,800	46
1770	13000	18.1					15,400	68	15,000	66	14,300	62	13,600	58	12,900	56
1840	13500	19.5							15,900	74	15,200	72	14,600	68	13,800	64
1910	14000	21.0									16,100	82	15,600	78	14,900	74
1980	14500	22.6											16,500	90	15,800	86
2050	15000	24.1											17,400	100	16,700	98

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.94 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
1430	10500	11.8	1,480	6.6												
1500	11000	12.9	5,410	16	1,470	7.5										
1570	11500	14.2	8,430	27	4,880	16	1,060	8.9								
1640	12000	15.4	9,720	34	8,570	29	4,570	16.5	1,740	10	925	9.0				
1700	12500	16.7	11,000	42	10,000	38	8,910	33	4,750	19	1,930	11.5	1,080	10		
1770	13000	18.1	12,000	50	11,300	47	10,300	42	9,260	37	6,390	26	2,130	13		
1840	13500	19.5	13,100	60	12,400	56	11,600	52	10,700	47	9,630	42	7,360	32		
1910	14000	21.0	14,200	70	13,500	66	12,700	62	11,900	56	11,100	52	10,000	47		
1980	14500	22.6	15,200	82	14,600	78	13,800	72	13,000	68	12,400	64	11,500	58		
2050	15000	24.1	16,200	94	15,400	88	14,900	84	14,200	80	13,500	76	12,700	70		

Single Inlet

No. 40 Slow Speed Low Power Planing Mill Exhauster
Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .867 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
430	3600	1.39	3,100	0.95												
454	3800	1.55	3,830	1.35												
480	4000	1.71	4,400	1.75	530	0.40										
500	4200	1.88	4,950	2.15	1,250	0.65										
525	4400	2.07	5,150	2.65	3,770	1.75										
550	4600	2.26	5,950	3.20	4,550	2.3	550	0.60								
575	4800	2.47	6,450	3.75	5,120	2.9	1,170	0.85								
600	5000	2.68	6,900	4.15	5,700	3.5	4,000	2.35								
630	5250	2.95	7,450	5.3	6,300	4.4	5,050	3.35	915	1.0						
660	5500	3.24	7,950	6.2	6,950	5.4	5,800	4.3	3,400	2.5						
690	5750	3.54	8,500	7.3	7,600	6.4	6,500	5.3	5,150	4.1	1,000	1.35				
720	6000	3.85	9,050	8.5	8,150	7.5	7,300	6.6	6,000	5.3	2,720	2.5	530	1.35		
750	6250	4.18	9,600	9.9	8,700	8.7	7,800	7.8	6,800	6.5	5,500	5.1	1,210	1.80		
780	6500	4.52			9,250	10.0	8,400	9.0	7,450	7.8	6,400	6.5	3,780	4.75	775	1.75
810	6750	4.81			9,750	11.5	9,000	10.5	8,200	9.2	7,050	7.8	5,800	6.2	1,360	2.25
840	7000	5.21					9,600	12.0	8,750	11	7,800	9.4	6,850	7.9	4,950	5.7
900	7500	6.02					10,700	15.5	9,950	14	9,200	13	8,450	11.5	7,370	9.5
960	8000	6.85							11,100	18	10,400	17	9,650	15.5	8,800	13.8
1020	8500	7.74							12,300	23	11,600	21	10,900	20	10,150	18.5
1080	9000	8.67									12,700	26	12,150	25	11,400	23.5
1140	9500	9.66									13,800	32	13,200	30	12,600	29
1200	10000	10.7											14,300	37	13,700	35
1260	10500	11.8											15,400	44	14,900	42
1320	11000	12.9													15,900	50

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. pe sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8' Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
900	7500	6.02	5,950	8.0	1,520	3.1	625	2.6								
960	8000	6.85	7,900	12.5	6,770	10.5	2,170	4.3	1,050	3.3						
1020	8500	7.74	9,450	17	8,600	15	7,400	12.5	4,910	8.7						
1080	9000	8.67	10,400	22	10,100	20	9,300	18.5	8,450	17.0	2,300	6.2				
1140	9500	9.66	12,100	28	11,400	26	10,700	24	10,100	22.5	8,200	18	1,980	6.4		
1200	10000	10.7	13,300	34	12,700	33	12,000	31	11,500	29	10,100	25	8,100	19.5	2,000	7.5
1260	10500	11.8	14,400	41	13,900	39	13,200	37	12,800	36	11,500	31	10,200	27	7,600	20
1317	11000	12.9	15,500	48	15,100	47	14,600	45	14,000	43	12,800	39	11,600	34	10,200	30
1377	11500	14.2	16,600	56	16,200	55	15,700	54	15,100	52	14,100	47	13,100	43	11,800	38
1437	12000	15.4			17,300	64	16,800	62	16,300	60	15,300	56	14,400	52	13,300	48
1497	12500	16.7			18,300	74	17,900	72	17,400	70	16,500	66	15,600	62	14,600	58
1557	13000	18.1					19,100	84	18,500	80	17,700	76	16,800	72	16,000	68
1617	13500	19.5							19,600	92	18,800	88	18,000	84	17,000	78
1677	14000	21.0									20,000	100	19,300	98	18,400	92
1737	14500	22.6											20,400	110	19,600	105
1797	15000	24.1											21,500	125	20,000	120

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.94 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
1260	10500	11.8	1,826	8.1												
1320	11000	12.9	6,680	19.5	1,810	9.2										
1380	11500	14.2	10,400	33	6,020	19.5	2,060	11.0								
1440	12000	15.4	12,000	42	10,600	36	5,650	20.5	2,140	12.5	1,140	11				
1500	12500	16.7	13,600	52	12,400	46	11,000	41	5,870	23	2,380	14	1,340	12.5		
1660	13000	18.1	14,900	62	13,900	58	12,700	52	11,500	46	7,900	32	2,640	16		
1620	13500	19.5	16,200	74	15,200	68	14,300	64	13,200	58	11,900	52	9,100	40		
1680	14000	21.0	17,500	88	16,700	82	15,700	76	14,700	70	13,700	64	12,300	58		
1740	14500	22.6	18,700	100	18,000	96	17,100	90	16,100	84	15,300	80	14,200	72		
1800	15000	24.1	20,000	115	19,200	110	18,400	105	17,500	98	16,700	94	15,700	86		

Single
Inlet

No. 45 Slow Speed Low Power Planing Mill Exhauster

Design 6

Single
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1'' Water .578 ozs. per sq. inch		Static Pressure 1½'' Water .867 ozs. per sq. inch		Static Pressure 2'' Water 1.16 ozs. per sq. inch		Static Pressure 2½'' Water 1.45 ozs. per sq. inch		Static Pressure 3'' Water 1.73 ozs. per sq. inch		Static Pressure 3½'' Water 2.02 ozs. per sq. inch		Static Pressure 4'' Water 2.31 ozs. per sq. inch	
382	3600	1.39	4,120	1.25												
403	3800	1.55	5,100	1.80												
425	4000	1.71	5,850	2.30	705	0.55										
446	4200	1.88	6,600	2.90	1,670	0.87										
467	4400	2.07	7,250	3.55	5,020	2.30										
489	4600	2.26	7,930	4.25	6,050	3.10	730	0.82								
510	4800	2.47	8,570	5.0	6,820	3.9	1,560	1.15								
530	5000	2.68	9,150	5.9	7,600	4.7	5,300	3.15								
558	5250	2.95	9,920	7.0	8,420	5.8	6,700	4.45	1,210	1.35						
585	5500	3.24	10,600	8.3	9,270	7.1	7,720	5.7	4,530	3.3						
610	5750	3.54	11,400	9.8	10,100	8.5	8,660	7.1	6,870	5.5	1,330	1.75				
635	6000	3.85	12,100	11.5	10,860	10.0	9,700	8.8	8,000	7.0	3,620	3.3	705	1.75		
665	6250	4.18	12,900	13	11,600	11.5	10,400	10.5	9,020	8.5	7,300	6.8	1,620	2.4		
690	6500	4.52			12,300	13.5	11,200	12.0	9,900	10.5	8,500	8.7	5,030	6.3	1,030	2.35
715	6750	4.81			13,000	15	11,900	13.5	11,000	12.5	9,400	10.5	7,700	8.3	1,810	3.0
740	7000	5.24					12,800	16	11,700	14.5	10,400	12.5	9,150	10.5	6,570	7.6
795	7500	6.02					14,200	21	13,300	19	12,200	17.5	11,200	15.5	9,820	12.5
850	8000	6.85							14,800	21	13,800	22.5	12,900	20.5	11,700	18.4
900	8500	7.74							16,000	31	15,400	28	14,500	26	13,500	25
955	9000	8.67									17,000	35	16,000	33	15,200	31
1005	9500	9.66									18,300	43	17,600	40	16,800	39
1060	10000	10.7											19,000	49	18,400	47
1115	10500	11.8											20,500	58	19,800	56
1170	11000	12.9													21,200	66

.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½'' Water 2.6 ozs. per sq. inch		Static Pressure 5'' Water 2.89 ozs. per sq. inch		Static Pressure 5½'' Water 3.18 ozs. per sq. inch		Static Pressure 6'' Water 3.47 ozs. per sq. inch		Static Pressure 7'' Water 4.05 ozs. per sq. inch		Static Pressure 8'' Water 4.63 ozs. per sq. inch		Static Pressure 9'' Water 5.2 ozs. per sq. inch	
795	7500	6.02	7,900	10.5	2,020	4.2	830	3.5								
850	8000	6.85	10,600	16.5	9,000	14	2,900	5.7	1,400	4.4						
900	8500	7.74	12,000	23	11,500	20	9,840	16.5	6,540	11.5						
955	9000	8.67	14,400	29	13,500	27	12,500	24.5	11,300	22.6	3,070	8.3				
1005	9500	9.66	16,100	37	15,200	35	14,400	32	13,500	30	11,000	24.5	2,630	8.5		
1060	10000	10.7	17,700	46	17,000	44	16,000	41	15,300	39	13,500	33	10,800	26	2,670	9.9
1115	10500	11.8	19,200	54	18,600	52	17,700	50	17,000	48	15,400	42	13,600	36	10,100	27
1170	11000	12.9	20,700	64	20,100	63	19,400	60	18,600	58	17,100	52	15,500	46	13,600	40
1220	11500	14.2	22,100	76	21,500	74	21,000	72	20,200	68	18,800	61	17,400	58	15,750	51
1270	12000	15.4			23,100	86	22,400	84	21,700	80	20,400	76	19,100	70	17,700	64
1330	12500	16.7			24,400	100	24,000	96	23,400	94	22,200	88	21,000	82	19,400	76
1380	13000	18.1					25,400	110	24,840	110	23,000	100	22,400	96	21,300	90
1430	13500	19.5							26,320	125	25,100	120	24,100	110	22,500	105
1480	14000	21.0									26,600	135	25,700	130	24,500	120
1540	14500	22.6											27,100	150	26,100	140
1590	15000	24.1											28,600	165	27,500	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10'' Water 5.78 ozs. per sq. inch		Static Pressure 11'' Water 6.36 ozs. per sq. inch		Static Pressure 12'' Water 6.94 ozs. per sq. inch		Static Pressure 13'' Water 7.51 ozs. per sq. inch		Static Pressure 14'' Water 8.09 ozs. per sq. inch		Static Pressure 15'' Water 8.67 ozs. per sq. inch		Static Pressure 0'' Water 0.00 ozs. per sq. inch	
1115	10500	11.8	2,150	11												
1170	11000	12.9	8,970	28	2,130	12.5										
1220	11500	14.2	14,000	44	8,050	26	2,700	15								
1270	12000	15.4	16,100	56	14,210	49	7,580	28	2,800	16.5	1,535	15				
1330	12500	16.7	18,200	70	16,600	62	14,700	55	7,880	31	3,200	19	1,860	16.5		
1380	13000	18.1	20,000	84	18,700	78	17,000	70	15,360	62	10,600	43	3,530	22		
1430	13500	19.5	21,700	100	20,500	92	19,200	86	17,700	78	15,900	70	12,200	52		
1480	14000	21.0	23,500	115	22,400	110	21,000	100	19,700	94	18,300	86	16,500	78		
1540	14500	22.6	25,000	135	24,100	130	22,900	120	21,600	115	20,400	105	19,000	96		
1590	15000	24.1	26,700	155	25,600	145	24,700	140	23,500	130	22,300	125	21,100	115		

Single Inlet

No. 50 Slow Speed Low Power Planing Mill Exhauster Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water 8.67 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
341	3600	1.39	4,950	1.50												
363	3800	1.55	6,120	2.15												
380	4000	1.71	7,020	2.75	845	0.65										
400	4200	1.88	7,900	3.45	2,000	1.05										
420	4400	2.07	8,700	4.25	6,020	2.75										
440	4600	2.26	9,520	5.1	7,250	3.7	875	0.99								
458	4800	2.47	10,300	6.0	8,200	4.6	1,870	1.4								
475	5000	2.68	11,000	7.1	9,100	5.6	6,350	3.8								
500	5250	2.95	11,900	8.1	10,100	7.0	8,070	5.5	1,400	1.60						
525	5500	3.24	12,800	9.9	11,100	8.5	9,250	6.9	5,440	3.95						
550	5750	3.54	13,600	11.5	12,100	10.0	10,400	8.5	8,250	6.5	1,600	2.15				
575	6000	3.85	14,500	13.5	13,000	12.0	11,600	10.5	9,620	8.4	4,340	3.95	845	2.10		
600	6250	4.18	15,300	16	13,900	14.0	12,500	12.5	10,800	10.5	8,740	8.2	1,940	2.85		
625	6500	4.52			14,800	16.0	13,400	14.5	11,900	12.5	10,200	10.5	6,040	7.6	1,240	2.8
650	6750	4.81			15,600	18.5	14,300	16.5	13,100	15.0	11,200	12.5	9,250	9.9	2,170	3.6
670	7000	5.24					15,300	19.5	14,000	17.5	12,500	15.0	11,000	12.6	7,900	9.1
715	7500	6.02					17,100	25	15,900	23	14,600	20.5	13,500	18.5	11,800	15
760	8000	6.85							17,800	29	16,600	27	15,400	25	14,000	22
810	8500	7.74							19,600	37	18,400	34	17,400	32	16,200	30
860	9000	8.67									20,300	42	19,300	40	18,200	37
905	9500	9.66									22,000	52	21,100	48	20,100	46
950	10000	10.7											22,900	59	22,000	56
1000	10500	11.8											24,600	70	23,800	68
1050	11000	12.9													25,400	80

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 4½" Water 2.6 ozs. per sq.inch		Static Pressure 5" Water 2.89 per ozs. sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pessure 9" Water 5.2 ozs. per sq. inch	
715	7500	6.02	9,500	12.5	2,430	5.0	1,000	4.2								
760	8000	6.85	12,700	20	10,800	16.5	3,170	6.9	1,680	5.3						
810	8500	7.74	15,100	27	13,800	24	11,800	20	7,900	14						
860	9000	8.67	17,200	35	16,100	32	14,900	30	13,500	27	3,680	10				
905	9500	9.66	19,200	45	18,300	42	17,200	38	16,100	36	13,100	29	3,160	10		
950	10000	10.7	21,200	55	20,300	52	19,200	48	18,300	46	16,100	40	13,000	31	3,200	12
1000	10500	11.8	23,000	65	22,300	62	21,200	60	20,400	56	18,100	50	16,200	43	12,100	32
1050	11000	12.9	24,800	78	24,100	76	23,200	72	22,300	68	20,500	62	18,600	54	16,300	47
1100	11500	14.2	26,500	90	25,800	88	25,000	86	24,200	82	22,600	76	20,900	68	18,900	60
1150	12000	15.4			27,700	105	26,800	100	26,000	96	24,400	90	23,000	84	21,200	76
1195	12500	16.7			29,300	120	28,600	115	28,000	115	26,400	105	25,000	98	23,200	92
1245	13000	18.1					30,500	135	29,600	130	28,200	120	26,800	115	25,500	110
1290	13500	19.5							31,400	145	30,000	140	28,800	135	27,200	125
1340	14000	21.0									31,800	160	30,700	155	29,300	115
1390	14500	22.6											32,600	175	31,400	170
1430	15000	24.1											34,300	195	33,000	190

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.94 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
950	10000	10.7														
1000	10500	11.8	2,920	13												
1050	11000	12.9	10,700	31	2,890	15										
1100	11500	14.2	16,700	52	9,620	31	3,280	17.5								
1150	12000	15.4	19,200	68	16,900	58	9,000	33	3,430	19.5	1,830	17.5				
1195	12500	16.7	21,700	84	19,800	74	17,600	66	9,400	37	3,800	22.5	2,140	20		
1245	13000	18.1	23,800	100	22,300	92	20,300	82	18,300	74	12,600	52	4,200	26		
1290	13500	19.5	25,900	120	24,400	110	22,900	100	21,100	92	19,000	82	14,500	62		
1340	14000	21.0	28,000	140	26,700	130	25,000	120	23,600	110	21,900	105	19,700	92		
1390	14500	22.6	29,900	160	28,800	150	27,300	145	25,800	135	24,400	125	22,600	115		
1430	15000	24.1	32,000	185	30,700	175	29,400	165	28,000	155	26,700	150	25,100	140		

Single Inlet

No. 55 Slow Speed Low Power Planing Mill Exhauster

Single Width

Design 6

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1¼″ Water .867 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2¼″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch	
313	3600	1.39	6,250	1.90												
330	3800	1.55	7,730	2.70												
347	4000	1.71	8,860	3.50	1,070	0.84										
365	4200	1.88	9,960	4.35	2,520	1.30										
382	4400	2.07	11,000	5.4	7,600	3.5										
400	4600	2.26	12,000	6.4	9,150	4.5	1,100	1.25								
417	4800	2.47	13,000	7.6	10,300	5.8	2,380	1.75								
435	5000	2.68	13,900	8.9	11,400	7.1	8,000	4.80								
455	5250	2.95	15,000	10.5	12,700	8.8	10,100	6.80	1,840	2.05						
480	5500	3.24	16,100	12.5	14,000	11.0	11,700	8.65	6,800	5.0						
500	5750	3.54	17,200	15	15,300	13.0	13,100	10.5	10,400	8.2	2,020	2.65				
520	6000	3.85	18,300	17	16,400	15.0	11,700	13.5	12,100	10.5	5,470	5.0	1,070	2.65		
545	6250	4.18	19,300	20	17,600	17.5	15,800	15.5	13,600	13.0	11,000	10.5	2,440	3.6		
565	6500	4.52			18,700	20	16,900	18.0	15,000	16.0	12,900	13.0	7,600	9.6	1,560	3.50
585	6750	4.81			19,700	23	18,100	20.5	16,500	18.5	11,300	15.5	11,700	12.5	2,740	4.55
610	7000	5.24					19,300	24.5	17,600	22	15,800	19	13,800	16	9,950	11.5
650	7500	6.02					21,500	31	20,100	29	18,500	26	17,000	23	14,900	19
695	8000	6.85							22,400	37	20,900	34	19,500	31	17,700	28
740	8500	7.71							24,650	46	23,200	43	21,900	40	20,500	37
785	9000	8.67									25,500	54	24,300	50	23,000	47
825	9500	9.66									27,700	64	26,500	62	25,400	58
870	10000	10.7											28,800	74	27,800	72
910	10500	11.8											31,000	88	30,000	86
960	11000	12.9													32,100	100

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½″ Water 2.6 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 5½″ Water 3.18 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
650	7500	6.02	11,960	16	3,060	6.3	1,260	5.5								
695	8000	6.85	16,000	25	13,700	21	4,380	8.6	2,110	6.7						
740	8500	7.74	19,100	34	17,400	31	14,900	25	10,000	17.5						
785	9000	8.67	21,700	44	20,300	41	18,800	37	17,100	34	4,650	12.5				
825	9500	9.66	24,300	56	23,000	52	21,700	49	20,300	45	16,500	37	3,990	13		
870	10000	10.7	26,700	70	25,600	66	24,200	62	23,100	58	20,300	50	16,400	39	4,040	15
910	10500	11.8	29,000	82	28,100	80	26,800	76	25,700	72	23,200	64	20,400	54	15,300	40
960	11000	12.9	31,300	98	30,400	94	29,300	90	28,200	86	25,900	78	23,400	70	20,600	60
1000	11500	14.2	33,400	115	32,600	110	31,600	110	30,500	105	28,500	94	26,300	86	24,800	76
1040	12000	15.4			34,900	130	33,900	125	32,600	120	30,900	115	29,000	105	26,800	96
1090	12500	16.7			36,900	150	36,000	145	35,200	140	33,300	135	31,600	125	29,400	115
1130	13000	18.1					38,400	170	37,300	165	35,700	155	33,900	145	32,200	135
1170	13500	19.5							39,500	185	38,000	175	36,300	170	34,400	160
1220	14000	21.0									40,300	205	38,800	195	37,000	185
1260	14500	22.6											41,000	220	39,500	210
1300	15000	24.1											43,200	250	41,600	240

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.94 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
910	10500	11.8	3,680	16.5												
960	11000	12.9	13,450	39	3,640	18.5										
1000	11500	14.2	21,000	66	12,200	40	4,140	22								
1040	12000	15.4	24,200	84	21,300	74	11,400	41	4,320	25	2,300	22.5				
1090	12500	16.7	27,300	105	24,900	94	22,000	82	11,850	47	4,800	29	2,700	25		
1130	13000	18.1	30,000	125	28,100	115	25,600	105	23,100	94	15,900	65	5,310	33		
1170	13500	19.5	32,700	150	30,800	140	28,800	130	26,600	115	24,000	105	18,300	80		
1220	14000	21.0	35,300	175	33,600	165	31,600	155	29,610	145	27,500	130	24,900	115		
1260	14500	22.6	37,800	200	36,200	190	34,500	180	32,600	170	30,700	160	28,500	145		
1300	15000	24.1	40,300	230	38,600	220	37,100	210	35,300	200	33,700	190	31,700	175		

Single Inlet

No. 60 Slow Speed Low Power Planing Mill Exhauster

Single Width

Design 6

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water .867 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
285	3600	1.39	7,150	2.2												
300	3800	1.55	8,850	3.1												
320	4000	1.71	10,200	4.0	1,220	0.95										
335	4200	1.88	11,400	5.0	2,890	1.05										
350	4400	2.07	12,600	6.2	8,700	4.0										
370	4600	2.26	13,900	7.4	10,500	5.4	1,270	1.45								
385	4800	2.47	14,900	8.7	11,800	6.7	2,700	2.0								
400	5000	2.68	15,900	10.0	13,100	8.2	9,180	5.5								
420	5250	2.95	17,200	12.0	14,600	10.0	11,600	7.8	2,110	2.35						
440	5500	3.24	18,400	14.5	16,100	12.5	13,400	9.9	7,850	5.7						
460	5750	3.54	19,700	17.0	17,500	14.5	15,000	12.5	11,900	9.4	2,310	3.05				
480	6000	3.85	20,900	19.5	18,800	17.5	16,800	15.0	13,900	12.0	6,270	5.7	1,220	3.05		
500	6250	4.18	22,100	23	20,200	20.0	18,000	18.0	15,600	15.0	12,600	12	2,800	4.1		
520	6500	4.52			21,400	23.5	19,400	20.5	17,200	18.0	14,700	15	8,700	11.0	1,790	4.05
540	6750	4.81			22,600	26.5	20,700	23.5	19,000	21.5	16,300	18	13,400	14.5	3,140	5.2
560	7000	5.21					22,200	28	20,200	25	18,100	22	15,900	18.0	11,400	13
600	7500	6.02					24,700	36	23,000	34	21,100	30	19,500	26.5	17,000	22
640	8000	6.85							25,600	42	24,000	39	22,300	37	20,300	32
680	8500	7.74							28,200	54	26,600	49	25,100	46	23,400	43
720	9000	8.67									29,300	60	27,600	58	26,300	54
760	9500	9.66									31,800	74	30,400	70	29,100	66
800	10000	10.7											33,000	84	31,800	82
840	10500	11.8											35,500	100	34,400	98
880	11000	12.9													36,700	115

R.P.M.	Tip Speed F.P.M.	S.N.D in inches	Static Pressure 4½″ Water 2.6 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 5½″ Water 3.18 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
600	7500	6.02	13,700	18.5	3,500	72	1,440	6.1								
640	8000	6.85	18,300	28	15,600	24	5,020	9.9	2,420	7.6						
680	8500	7.74	21,900	39	19,900	35	17,000	29	11,400	20						
720	9000	8.67	24,900	50	23,300	46	21,600	43	19,500	39	5,320	11.5				
760	9500	9.66	27,800	64	26,400	60	24,800	56	23,300	52	18,900	42	4,570	1.5		
800	10000	10.7	30,700	80	29,300	75	27,800	70	26,500	66	23,300	58	18,800	45	4,620	17.5
840	10500	11.8	33,200	94	32,200	90	30,700	86	29,500	82	26,600	72	23,400	62	17,500	46
880	11000	12.9	35,900	115	34,900	110	33,600	105	32,200	100	29,600	90	26,600	80	23,600	68
920	11500	14.2	38,300	130	37,300	125	36,200	125	35,000	120	32,600	110	30,200	100	27,300	88
960	12000	15.4			40,000	150	38,800	145	37,600	140	35,400	130	33,100	120	30,700	110
1000	12500	16.7			42,400	170	41,200	165	40,300	160	38,200	150	36,000	145	33,600	130
1040	13000	18.1					44,000	195	42,800	185	40,800	175	38,800	165	36,900	155
1080	13500	19.5							45,300	210	43,500	205	41,600	195	39,300	180
1120	14000	21.0									46,100	235	44,500	225	42,400	210
1160	14500	22.6											47,000	255	45,200	240
1200	15000	24.1											49,500	290	47,600	280

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.94 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
840	10500	11.8	4,210	19												
880	11000	12.9	15,400	45	4,170	21.5										
925	11500	14.2	24,100	76	13,900	42.5	4,750	25								
960	12000	15.4	27,800	96	21,400	84	13,000	47	4,950	28	2,640	26.0				
1000	12500	16.7	31,300	120	28,600	105	25,400	94	13,600	54	5,500	32.5	3,100	28.5		
1040	13000	18.1	34,400	145	32,200	135	29,300	120	26,400	105	18,300	74	6,100	37.5		
1080	13500	19.5	37,500	170	35,200	160	33,000	150	30,500	135	27,500	120	21,000	92		
1120	14000	21.0	40,400	200	38,500	190	36,200	175	33,900	160	31,600	150	28,700	135		
1160	14500	22.6	43,200	230	41,500	220	39,500	210	37,200	195	35,200	180	32,700	165		
1200	15000	24.1	46,200	265	44,300	250	42,500	240	40,500	230	38,600	215	36,300	200		

Single Inlet

No. 70 Slow Speed Low Power Planing Mill Exhauster Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water .867 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch	
245	3600	1.39	9,860	3.05												
245	3800	1.55	12,200	4.30												
275	4000	1.71	14,000	5.5	1,690	1.35										
287	4200	1.88	15,700	6.9	3,980	2.05										
300	4400	2.07	17,400	8.5	12,000	5.5										
315	4600	2.26	19,000	10.0	14,500	7.4	1,750	1.95								
327	4800	2.47	20,500	12.0	16,300	9.2	3,720	2.8								
340	5000	2.68	21,900	14.0	18,100	11.5	12,700	7.6								
360	5250	2.95	23,700	17.0	20,200	14.0	16,000	10.5	2,910	3.25						
375	5500	3.24	25,300	20.0	22,100	17.0	18,500	13.5	10,800	7.9						
390	5750	3.54	27,100	23.5	24,100	20.5	20,700	17.0	16,400	13.0	318	4.25				
410	6000	3.85	28,800	27	25,900	24	23,200	21.0	19,200	16.5	8,640	7.9	1,680	4.2		
425	6250	4.18	30,500	31	27,700	28	24,900	21.5	21,500	21	17,400	16.5	3,860	5.7		
445	6500	4.52			29,100	32	26,700	29.0	23,700	25	20,300	21.0	12,000	15	2,460	5.6
460	6750	4.81			31,200	37	28,500	33.0	26,100	29	22,500	21.5	18,400	20	4,330	7.2
480	7000	5.24					30,600	38.5	27,900	35	24,900	30.0	21,900	25	15,700	18
510	7500	6.02					31,000	49	31,700	45	29,100	41.0	26,900	37	23,500	30
545	8000	6.85							35,300	58	33,100	51.0	30,700	49	28,000	41
580	8500	7.74							39,000	74	36,700	68.0	34,600	63	32,300	60
615	9000	8.67									40,300	84.0	38,400	80	36,200	74
650	9500	9.66									43,800	102	41,900	96	40,100	92
680	10000	10.7											45,500	120	43,800	115
720	10500	11.8											49,000	140	47,400	135
750	11000	12.9													50,700	160

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½″ Water 2.6 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 5½″ Water 3.18 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch	
510	7500	6.02	18,900	25	4,830	9.9	1,990	8.35								
545	8000	6.85	25,200	39	21,600	33	6,930	13.5	3,330	10.5						
580	8500	7.74	30,100	51	27,400	48	23,500	40	15,700	28						
615	9000	8.67	34,300	70	32,100	64	29,700	58	27,000	54	7,330	20				
650	9500	9.66	38,400	88	36,400	82	34,200	78	32,100	72	26,100	58	6,310	20.5		
680	10000	10.7	42,250	110	40,300	105	38,300	98	36,400	92	32,000	78	25,800	62	6,380	23.5
720	10500	11.8	45,800	130	44,300	125	42,300	120	40,600	115	36,600	100	32,300	86	24,100	64
750	11000	12.9	49,400	155	47,700	150	46,400	145	44,500	135	40,800	125	37,000	110	32,500	94
780	11500	14.2	52,700	180	51,800	175	50,000	170	48,200	165	45,000	150	41,600	135	37,600	120
820	12000	15.4			55,400	205	53,500	200	51,800	195	48,700	180	45,700	165	42,300	150
850	12500	16.7			58,300	235	56,900	230	55,500	220	52,600	210	50,000	195	46,400	180
890	13000	18.1					60,700	265	59,000	260	56,300	240	53,500	230	50,800	215
920	13500	19.5							62,400	290	60,100	280	57,400	265	54,300	250
960	14000	21.0									63,500	325	61,300	310	58,400	290
990	14500	22.6											65,000	355	62,500	335
1025	15000	24.1											68,300	395	65,600	380

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.94 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 0″ Water 0.00 ozs. per sq. inch	
720	10500	11.8	5,810	25												
750	11000	12.9	21,300	62	5,750	29.5										
780	11500	14.2	33,200	105	19,200	62	6,550	35								
820	12000	15.4	38,200	135	33,700	115	18,000	66	6,830	39	3,640	35				
850	12500	16.7	43,100	165	39,300	150	35,000	130	18,700	74	7,580	45	4,200	39		
890	13000	18.1	47,500	200	44,300	185	40,000	165	36,400	145	25,100	105	8,400	52		
920	13500	19.5	51,700	235	49,000	220	45,500	205	42,000	185	37,800	165	28,900	125		
960	14000	21.0	55,700	280	53,000	260	50,000	240	46,800	225	43,500	205	39,200	185		
990	14500	22.6	59,600	320	57,200	305	54,400	285	51,300	270	48,500	250	45,000	230		
1020	15000	24.1	63,700	365	61,000	345	58,600	330	55,700	310	53,200	295	50,000	275		

Single Inlet

No. 80 Slow Speed Low Power Planing Mill Exhauster
Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .867 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
215	3600	1.39	12,900	4.0												
227	3800	1.55	16,000	5.6												
240	4000	1.71	18,300	7.2	2,200	1.75										
252	4200	1.88	20,500	9.0	5,200	2.70										
263	4400	2.07	22,700	11.0	15,700	7.20										
275	4600	2.26	24,800	13.5	18,900	9.65	2,280	2.55								
286	4800	2.47	26,800	15.5	21,300	12	4,850	3.65								
300	5000	2.68	28,600	18.5	23,600	15	16,600	9.85								
315	5250	2.95	31,000	22	26,300	18	21,000	14	3,800	4.2						
330	5500	3.24	33,100	26	29,000	22	24,100	18	14,200	10.5						
345	5750	3.54	35,400	31	31,500	27	27,000	22	21,500	17	4,160	5.55				
360	6000	3.85	37,000	35	33,800	31	30,300	27	25,000	22	11,300	10.5	2,200	5.5		
375	6250	4.18	39,800	42	36,200	36	32,500	32	28,200	27	22,500	21	5,050	7.4		
390	6500	4.52			38,500	42	35,000	37	31,000	33	26,600	27	15,500	20	3,220	7.2
405	6750	4.81			40,700	48	37,300	43	34,200	38	29,400	32	24,100	26	5,650	9.3
420	7000	5.21					40,000	50	36,400	45	32,500	39	28,500	33	20,500	24
450	7500	6.02					41,500	64	41,500	60	38,100	54	35,000	48	30,600	40
480	8000	6.85							46,200	76	43,000	70	40,000	65	36,500	58
510	8500	7.74							51,000	96	48,000	88	45,200	82	42,200	78
540	9000	8.67									52,700	110	50,000	105	47,300	96
570	9500	9.66									57,200	135	54,800	125	52,500	120
600	10000	10.7											59,400	155	57,300	150
630	10500	11.8											64,000	180	62,000	175
660	11000	12.9													66,000	210

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. pe sq. inch		Static Pressure 5½" Water 3.18 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch		Static Pressure 8' Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch	
450	7500	6.02	24,700	33	6,300	13	2,600	11								
480	8000	6.85	33,000	52	28,100	43	9,020	18	4,360	14						
510	8500	7.74	39,400	70	35,800	62	30,700	52	20,500	36						
540	9000	8.67	44,800	92	41,900	84	38,700	76	35,200	70	9,570	26				
570	9500	9.66	50,100	115	47,500	110	44,600	100	41,800	94	34,000	75	8,230	27		
600	10000	10.7	55,200	145	52,700	135	50,000	130	47,700	120	42,000	105	33,800	81	8,320	31
630	10500	11.8	59,800	170	58,000	165	55,200	155	53,000	150	47,800	130	42,200	110	31,500	84
660	11000	12.9	64,600	200	62,800	195	60,500	190	58,000	180	53,300	160	48,300	145	42,500	125
690	11500	14.2	68,800	235	67,200	230	65,000	225	63,000	215	58,700	195	54,300	180	49,200	160
720	12000	15.4			72,000	270	70,000	200	67,700	250	63,500	235	59,700	220	55,200	200
750	12500	16.7			76,200	310	74,300	300	72,400	290	68,700	275	65,000	260	60,500	240
780	13000	18.1					79,200	350	77,000	335	73,500	315	70,000	300	66,300	285
810	13500	19.5							81,500	380	78,200	365	75,000	350	70,800	325
840	14000	21.0									83,000	420	80,000	405	76,200	380
870	14500	22.6											85,000	460	81,500	440
900	15000	24.1											89,000	515	85,700	500

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.94 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch		Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
630	10500	11.8	7,600	34												
660	11000	12.9	27,800	82	7,520	38										
690	11500	14.2	43,300	138	25,000	82	8,550	46								
720	12000	15.4	50,000	175	44,000	150	23,500	86	8,900	52	4,750	46				
750	12500	16.7	56,500	220	51,500	195	46,000	170	24,400	96	9,900	60	5,580	52		
780	13000	18.1	61,500	260	58,000	240	52,800	215	47,500	190	32,800	135	10,950	68		
810	13500	19.5	67,500	310	63,500	290	59,500	265	55,000	240	49,400	215	37,800	165		
840	14000	21.0	72,700	360	69,400	340	65,200	315	61,000	290	56,800	270	51,300	240		
870	14500	22.6	78,000	420	75,000	400	71,000	375	67,000	350	63,400	330	59,000	300		
900	15000	24.1	83,000	480	80,000	450	76,500	430	73,000	410	69,500	385	65,400	360		

Single Inlet

No. 90 Slow Speed Low Power Planing Mill Exhauster
Design 6

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 1½″ Water 8.67 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 2½″ Water 1.45 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 3½″ Water 2.02 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
191	3600	1.39	16,400	5.1												
201	3800	1.55	20,300	7.1												
212	4000	1.71	23,300	9.2	2,810	2.2										
223	4200	1.88	26,200	11.5	6,620	3.5										
233	4400	2.07	29,000	14.0	20,000	9.2										
244	4600	2.26	31,600	17.0	24,000	12.5	2,900	3.25								
254	4800	2.47	34,100	20	27,100	15.5	6,180	4.65								
265	5000	2.68	36,500	24	30,100	19	21,000	12								
280	5250	2.95	39,500	28	33,500	23	26,700	18	4,830	5.4						
290	5500	3.24	42,200	33	34,700	28	30,700	23	18,000	13.0						
305	5750	3.54	45,100	38	40,200	34	34,500	28	27,100	21.5	5,300	7.1				
320	6000	3.85	48,000	45	43,200	40	38,600	35	32,000	28	14,400	13	2,800	7.0		
330	6250	4.18	50,800	52	46,200	46	41,400	41	35,900	35	29,000	27	6,430	9.5		
345	6500	4.52			49,000	53	44,500	47	39,400	42	33,800	35	20,000	25	4,100	9.3
360	6750	4.81			51,800	60	47,500	54	43,500	49	37,400	41	30,700	33	7,200	12
370	7000	5.24					51,000	61	46,500	58	41,100	50	36,400	42	26,100	30
400	7500	6.02					56,600	82	52,800	76	48,500	68	44,700	60	39,000	50
425	8000	6.85							58,800	96	55,000	90	51,100	83	46,700	74
450	8500	7.74							65,000	120	60,500	115	57,600	105	53,700	98
480	9000	8.67									67,200	140	61,000	130	60,300	125
505	9500	9.66									73,000	170	70,000	160	67,000	155
530	10000	10.7											75,700	195	73,000	190
555	10500	11.8											81,500	230	79,000	225
580	11000	12.9													84,200	265

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4½″ Water 2.6 ozs. per sq.inch		Static Pressure 5″ Water 2.89 per ozs. sq. inch		Static Pressure 5½″ Water 3.18 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch		Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pesaure 9″ Water 5.2 ozs. per sq. inch	
400	7500	6.02	31,420	42	8,050	16.5	3,330	14.0								
425	8000	6.85	42,000	66	35,800	54	11,500	22.5	5,550	17.5						
450	8500	7.74	50,200	90	45,600	80	39,100	66	26,200	46						
480	9000	8.67	57,100	116	53,400	105	49,600	98	41,800	90	12,200	33				
505	9500	9.66	63,900	150	60,600	140	57,000	130	53,400	120	43,400	96	10,500	34		
530	10000	10.7	70,400	185	67,200	175	63,700	160	60,700	150	53,300	130	43,000	105	10,600	39
555	10500	11.8	76,300	215	73,800	210	70,300	195	67,600	190	61,000	165	53,700	140	40,200	105
580	11000	12.9	82,300	255	80,000	250	77,100	240	74,000	230	68,000	205	61,500	180	54,200	155
610	11500	14.2	87,800	300	85,700	290	83,000	285	80,200	270	74,800	250	69,300	225	62,000	200
640	12000	15.4			91,600	340	89,000	330	86,400	320	81,100	300	76,000	275	70,400	250
660	12500	16.7			97,000	390	94,700	380	92,400	370	87,600	315	82,900	330	77,100	300
690	13000	18.1					101,000	440	98,000	430	93,700	405	89,000	380	84,600	360
720	13500	19.5							104,000	485	100,000	465	95,400	445	90,400	415
740	14000	21.0									106,000	535	102,000	515	97,200	485
770	14500	22.6											108,000	585	104,000	560
795	15000	24.1											114,000	655	109,000	635

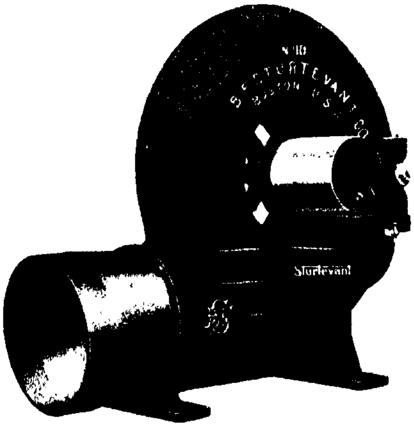
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.94 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch		Static Pressure 15″ Water 8.67 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
555	10500	11.8	9,670	43												
580	11000	12.9	35,400	105	9,580	49										
610	11500	14.2	55,200	175	31,900	105	10,900	58								
640	12000	15.4	63,700	220	56,100	195	30,000	110	11,350	65	6,060	58				
660	12500	16.7	71,800	275	65,500	245	58,500	215	31,100	125	12,600	75	7,100	66		
690	13000	18.1	78,800	330	73,800	305	67,300	275	60,600	245	41,800	170	13,900	86		
720	13500	19.5	86,000	395	80,900	365	75,700	335	70,000	305	63,000	275	48,200	210		
740	14000	21.0	92,800	460	88,400	430	83,000	400	77,800	370	72,500	315	65,400	305		
770	14500	22.6	99,300	530	95,300	505	90,600	475	85,500	450	80,800	420	75,000	380		
795	15000	24.1	106,000	610	101,500	575	97,600	550	92,800	520	88,500	495	83,300	400		

MONOGRAM FANS

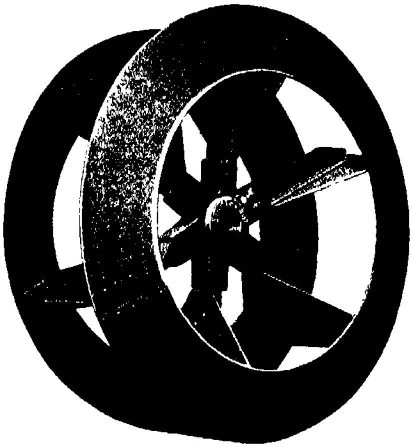
Design 2

Dimensions, Capacities, Horse Powers

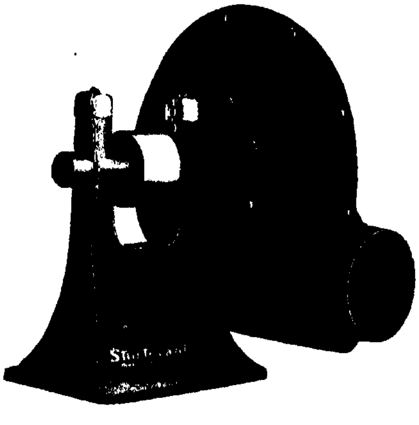
Monogram Fan—Design 2



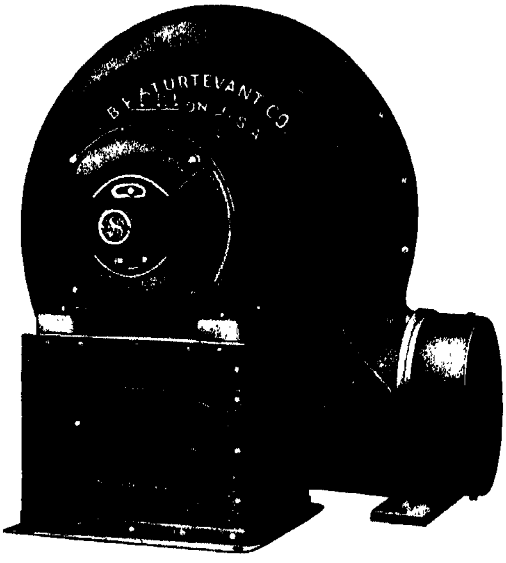
Monogram Blower, Right Hand
Bottom Horizontal Discharge



Monogram Fan Wheel



Pressed Steel Monogram Fan, Design 2 Single Inlet
Left Hand Bottom Horizontal Discharge



Electric Monogram Exhauster, Left Hand
Bottom Horizontal Discharge

MONOGRAM FAN—DESIGN 2

SPECIFICATIONS

General. There shall be furnished a No. . . . . Design No. 2 Sturtevant Monogram Fan. It shall be made (single or double) . . . . inlet, single width (right or left) . . . . hand, ... discharge and have full housing. The outlet shall be . . . . . . inches diameter, and the inlet . . . . . . inches diameter. The total height of the fan housing should be . . . . inches, the width and direction of shaft . . . . . inches, and the length transverse to shaft . . . . . . inches. The fan shall have a capacity of . . . . cubic feet per minute against a resistance of . . . . inches water gauge either at the inlet or at the outlet (or at both taking the sum), and shall operate at approximately . . . . . R. P. M., requiring approximately . . . . B. H. P.

Housing. The housing shall be of spiral form constructed of cast iron, and made in two halves bolted together. On the double inlet fans, outlets shall be fitted with an expanding outlet. Exhausters shall have a collar cast with the casing to facilitate connection to suction pipe.

Wheels. Blades of wheel shall be made of refined steel plate, flanged and riveted to the side plates, which are also to be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made in size No. 0000 of cast composition; sizes No. 00 to No. 5 inclusive of malleable iron; sizes No. 6 to No. 10 inclusive of cast iron having cast integral with it and radiating from it steel arms of T-sections. Hub shall be accurately bored and fitted to the shaft. At the outer ends of the arms, steel blades are to be securely riveted. Wheel shall be carefully balanced.

Bearings. The bearings should be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support and shall be lined with best quality babbitt containing upwards of 85 per cent. tin, bored and scraped to exact size.

Shaft. The shaft shall be made from a steel forging, and after the keyways are cut, it shall be accurately turned and ground.

Monogram Fan and Exhauster—Design 2

EXPLANATION OF TABLES

The general explanation of tables found in the front of this book applies to these tables.

Capacities of single inlet fans and of double inlet fans smaller than No. 2 are measured as described in the general explanation.

Capacities of double inlet fans in sizes 2 to 10 are measured in a pipe of the same area as the large end of the expanded outlet.

Monogram Fan—Design 1

APPROXIMATE WEIGHTS

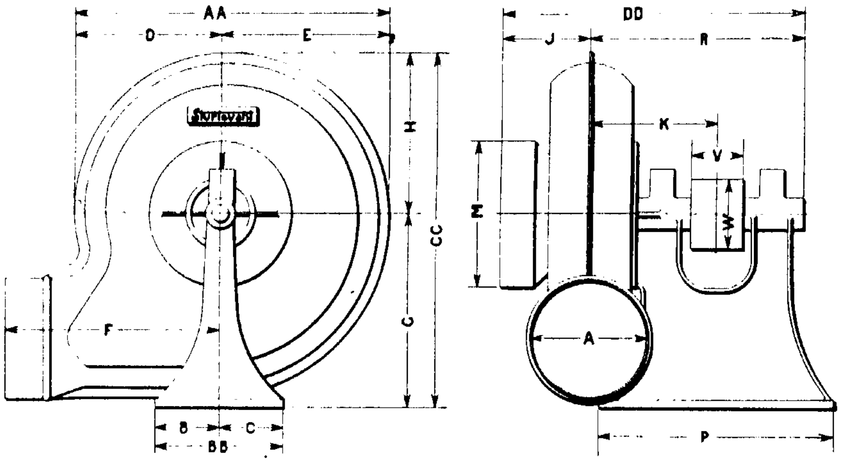
Size	Blower	Exhauster	Pressed Steel	Blower on Adjustable Bed	Blower on Adjustable Bed with Combined Countershaft
0000	15	20	13		
00	30	40	24		
0	52	58	37		
1	80	90	59		
2	120	123	88		
3	190	200			
4	265	300		335	675
5	380	400		485	1075
6	525	590		720	1525
7	925	1030		1050	2250
8	1340	1555		1700	3600
9	1975	2100		2200	4350
10	2550	2700		3300	6400

Single Inlet

Monogram Pressed Steel Exhauster—Design 2

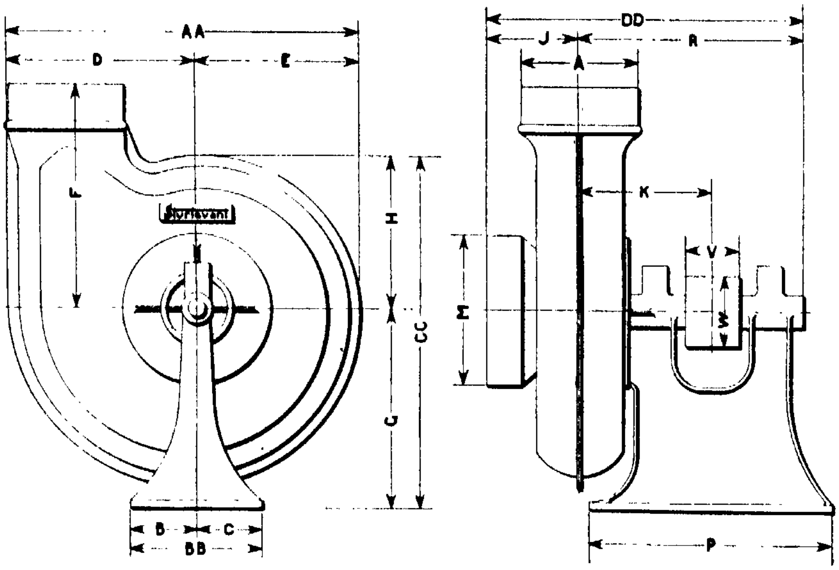
Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Dia.	Shaft Dia.	Ancho Bolts Hange
¾	2¾	2	2	4¼	4⅜	5¼	5⅛	4¼	2 3/16	3 11/16	3¾	6	6 3/16	1⅞	1¼	8½	4	9¾	8⅜	6	½	¼
2	7½	4	4	9 3/16	10 11/16	13⅛	12	9 13/16	5⅝	8	9	15	13 9/16	4⅜	3¼	19⅞	8	22	19	12¼	1	½

Up Blast Discharge



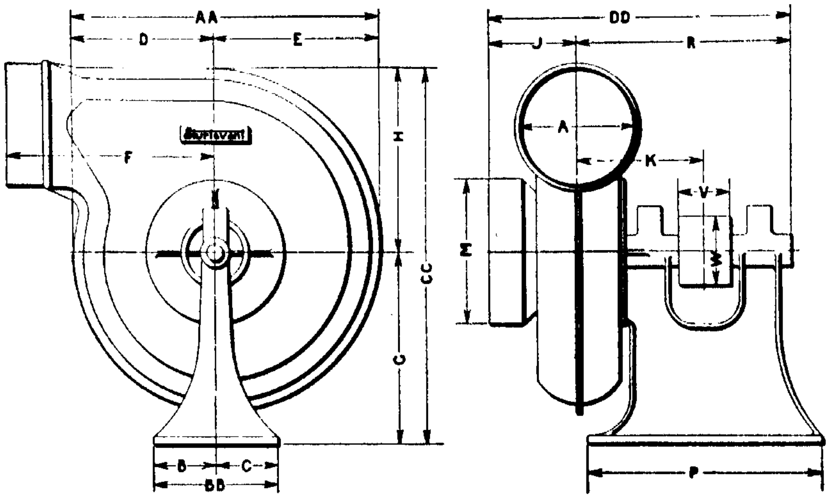
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Dia.	Shaft Dia.	Ancho Bolts Hange
¾	2¾	2	2	4¼	4¼	5¼	5½	4¼	2 3/16	3 11/16	3¾	6	6 9/16	1⅞	8½	9	4	9⅝	8¾	6	½	¼
2	7½	4	4	11 7/16	9 13/16	13½	12	9 3/16	5⅝	8	9	15	13 9/16	4⅝	19⅞	21	8	21 3/16	19 3/16	12¼	1	½

Single Inlet

Monogram Pressed Steel Exhauster—Design 2

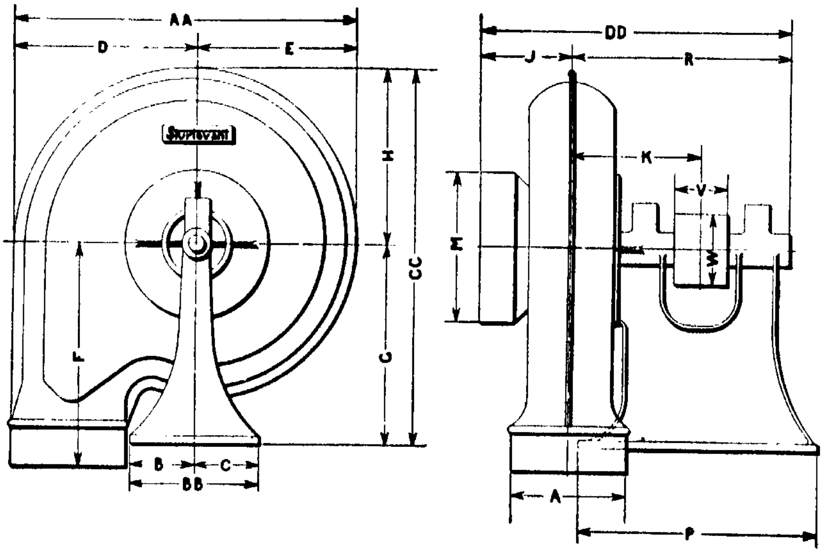
Single Width

Full Housing **Top Horizontal Discharge** **Overhung Wheel**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	An. Bolts Hanger
4/0	2¼	2	2	4⅛	4⅜	5¼	5½	4½	2 3/16	3 11/16	3¼	6	6 3/16	1⅞	1¼	8½	4	10	8⅜	6	½	¼
2	7½	4	4	9 3/16	10 11/16	13½	12	11 7/16	5⅝	8	9	15	13 9/16	4⅞	3¼	19⅞	8	23 7/16	19 3/16	12½	1	½

Down Blast Discharge



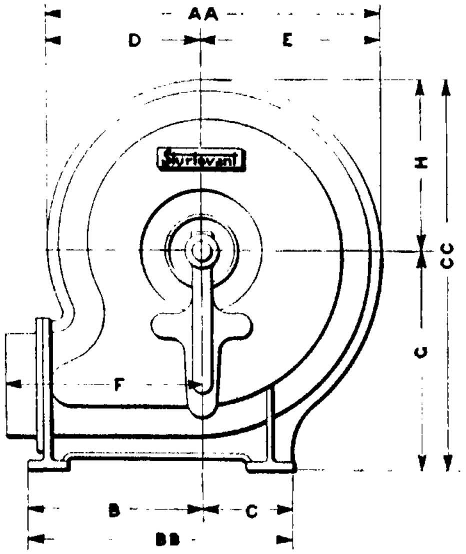
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	An. Bolts Hanger
4/0	2¾	2	2	4½	4¼	5¼	5½	4¾	2 3/16	3 11/16	3¼	6	6 3/16	1⅞	1½	8¾	4	9⅞	8⅜	6	½	½
2	7½	4	4	11 7/16	9 15/16	13½	12	10 11/16	5¾	8	9	15	13 9/16	4⅜	3¼	21⅜	8	22 11/16	19 3/16	12½	1	½

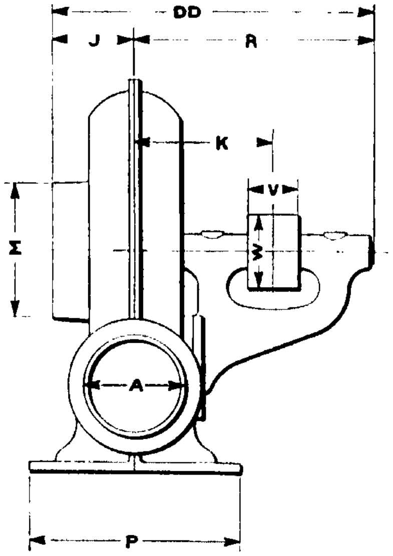
Single Inlet

Monogram Fan — Design 2

Single Width

Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2¾	4⅝	2⅜	4⅛	4⅜	5⅛	5½	4¼	2	3½	3⅜	5½	6⅛	1¼	1⅞	8½	7	9¾	8⅛	6	½	¼
00	4⅛	7	3	6⅛	6⅝	8¼	7⅞	6⅜	3	4¾	4⅞	6½	8½	1⅞	2⅝	12¼	10	14¼	11½	8¼	¾	¼
0	4¾	8⅝	3⅝	7⅛	7⅝	10⅛	9	7⅛	3¾	5⅞	5¾	7¾	10¾	2½	3	15	12¼	16½	11½	9¾	13/16	¼
1	5⅝	9	4½	7¾	9	11	10¾	8⅜	4⅛	7	6⅝	9	12	2½	3½	16¾	13½	19⅛	16⅛	10⅞	⅞	⅜
2	7½	11	5½	9¾	10¾	13	12⅝	10	5⅝	8	7⅞	10	13½	3¼	4⅜	20	16½	22⅝	19⅛	12¼	1	½
3	9	13	7	10¾	12¾	15¼	14¾	11¾	6¼	9 9/16	9	12	16¼	4	5⅛	23½	20	26½	22½	16	1⅛	½
4	10⅝	15¼	7½	12½	15	17½	17¼	13¾	7	10½	10½	14	18¾	4¾	6	27½	22¾	31	25¼	19	1¼	⅝
5	12¼	17½	9½	14⅛	17⅝	20¼	20	16¼	8¼	12¼	12¼	16½	22	5¼	6⅞	32½	27	36¼	30¼	21½	1⅜	⅝
6	14⅜	20	11	17	20½	22¾	23	18¾	9⅛	14	15	19	23¾	6½	8	37½	31	41¾	32⅞	26	1½	⅝
7	16⅜	23⅜	12¼	20	24	26	28	22	10¼	16⅞	16¾	21	29⅛	7½	8⅞	44	36⅜	50	39⅜	30¾	1 15/16	¾
8	19	26¾	13¾	23⅛	27⅛	29	31⅛	25⅛	12¼	19¼	18½	27½	33	8⅞	10¾	50¼	40½	56⅝	45¼	36	2 3/16	¾
9	21⅛	30⅜	16½	26	31½	32⅜	37	28¾	15	22¾	21½	31¼	38½	10½	12	57½	46⅞	65¼	53½	40	2 7/16	⅞
10	21¾	31¾	21¾	31½	37½	37¾	43	31½	16¾	24½	21½	58⅛	41	11¼	13¾	69	56½	77½	57¼	48	2 11/16	1

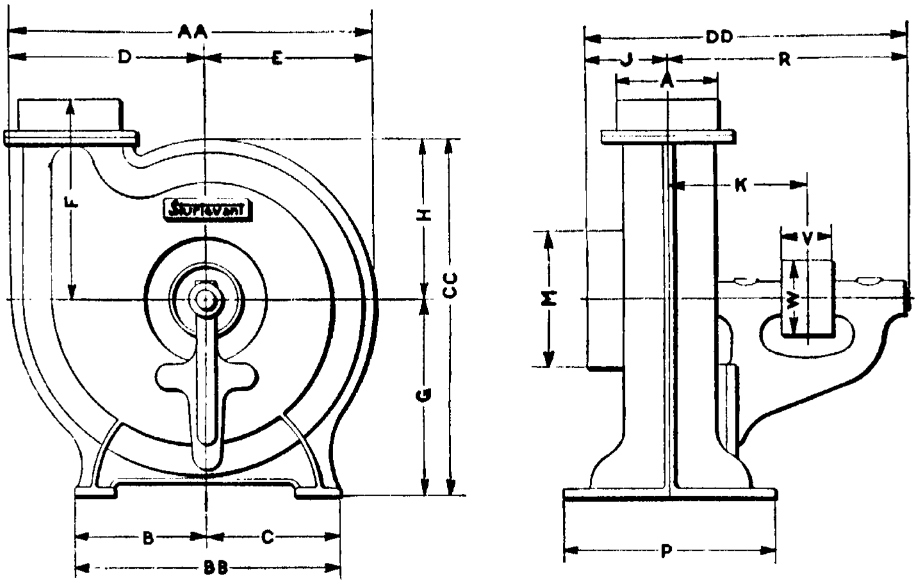
Note — The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet

Monogram Fan—Design 2

Single Width

Full Housing **Up Blast Discharge** **Overhung Wheel**



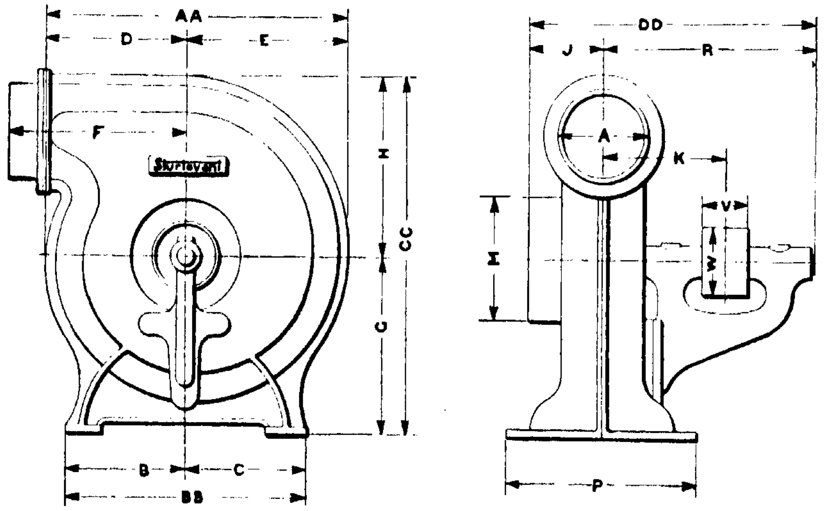
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2¾	3½	2½	4½	4¼	5⅛	5½	4⅛	2	3½	3½	5½	6⅛	1¼	1⅞	8¾	6	9⅝	8⅛	6	½	¼
00	4⅛	4⅞	4⅞	6⅞	6⅜	8¼	6⅞	6⅛	3	4¼	4⅞	6½	8½	1⅞	2⅜	13¼	9¾	13	11½	8¼	¾	¼
0	4¾	5⅛	5¼	8¼	7½	10⅛	8½	7⅛	3¾	5⅞	5¾	7¾	10¼	2½	3	15¾	10⅜	15⅝	14½	9¼	13/16	¼
1	5⅝	6⅞	5⅛	9⅝	8⅛	11	10	7¾	4⅛	7	6⅝	9	12	2½	3½	18	12¼	17¾	16⅛	10⅞	⅞	⅜
2	7½	7¼	7¼	11½	10	13	12¼	9¼	5⅝	8	7⅞	10	13½	3¼	4⅜	21½	14½	21½	19⅛	12¼	1	½
3	9	8½	8½	13¾	11¼	15¼	15¼	10¾	6¼	9 9/16	9	12	16¼	4	5⅛	25½	17	26	22½	16	1⅛	½
4	10⅜	10	10	16¼	13¾	17½	17⅛	12½	7	10½	10½	14	18¼	4¼	6	30	20	29⅜	25¼	19	1¼	⅝
5	12¾	12¼	12¾	19	16¼	20¼	20¼	11⅞	8¼	12¾	12¼	16½	22	5¼	6⅞	35¼	24½	35⅛	30¼	21½	1⅜	⅝
6	14⅝	19	12	22¼	18¼	22¾	23½	17	9⅛	14	15	19	23¾	6½	8	41	31	40½	32⅞	26	1½	⅝
7	16⅝	16	16	26	22	26	27¼	20	10¼	16⅞	16¼	24	29⅛	7½	8⅞	48	32	47¼	39⅜	30¼	1 11/16	¾
8	19	18	18	29⅛	25⅛	29	30⅞	23⅛	12¼	19¼	18½	27½	33	8⅞	10¼	54¼	36	54	45¼	36	2 3/16	¾
9	21⅞	20¼	20¼	31¼	28¼	32⅜	35½	26	15	22¼	21½	31¼	38½	10½	12	63	40½	61½	53½	40	2 7/16	⅞
10	21¾	23½	23½	40½	31½	37¼	39⅝	31½	16¾	24½	21½	56¼	41	11¼	13¼	75	47	71⅛	57¼	48	2 11/16	1

Note—The No 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet **Single Width**

Monogram Fan – Design 2

Full Housing **Top Horizontal Discharge** **Overhung Wheel**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2¾	2 13/16	2 15/16	4⅛	4½	5¼	5	5 9/16		3½	3⅝	5½	6	1¼	1⅞	8½	5⅞	10 3/16		6	½	¼
00	4⅛	5⅝	4⅛	6⅛	6⅝	8¼	6¾	6⅞	5⅛	3	4⅞	6½	7½	1⅞	2⅜	12¼	9¾	13½	12⅞	8¼	¾	¼
0	4¾	5¼	5¼	7⅛	7⅞	10	8¼	8¼	5¾	3¼	5¾	7½	9	2½	3	15	10½	17	14¾	9¾	13/16	¼
1	5¾	7½	6	7¾	9	10¾	9	9⅝	6½	4¼	6½	8⅝	10	2½	3½	16¼	13½	18⅝	16½	10⅞	⅞	⅜
2	7½	6	7	9¼	10¾	13½	10½	11½	7⅜	5⅛	7½	10⅜	11½	3¼	4⅜	20	13	22	18⅞	12¼	1	½
3	9	7⅞	8⅝	10¾	12¾	15⅝	13	13¾	8¼	5⅞	9	12	13¼	4	5⅛	23½	16	26¾	21½	16	1⅛	½
4	10⅝	11¼	11¼	12½	15	17¾	15¼	16¼	9¼	6¾	10½	14¼	15¼	4¾	6	27½	22½	28⅜	24½	19	1¼	⅝
5	12¼	12⅝	12⅞	14⅞	17⅝	20¼	18¾	19	10⅝	8	12¼	16¼	17¼	5¼	6¾	35¼	26½	33½	28⅛	21½	1⅜	⅝
6	14⅜	17¼	13¾	17	20½	22¾	22	22¼	11⅞	9½	15	19	20¼	6½	8	37½	31	44¼	32⅞	26	1½	⅝
7	16⅝	16½	16½	20	24	26	23½	26	14¾	11¼	16¾	24	23¼	7½	8⅞	44	33	49½	38¼	30¾	1 15/16	¾
8	18¾	18	18	23⅛	27⅛	29¼	28	29⅛	17¼	13¼	18⅝	27½	28	8¾	10¼	50¼	36	57⅛	45½	36	2 3/16	¾
9	21⅞	20¼	20¼	26	31½	33	32½	31¼	19¼	15¼	21⅛	32	31	10½	12	57½	40½	66¼	50½	40	2 7/16	⅞
10	21⅝	23½	23½	31½	37½	37½	36	40½	21¾	19½	21½	36¼	38¾	11¼	13¾	69	47	76½	60½	48	2 11/16	1

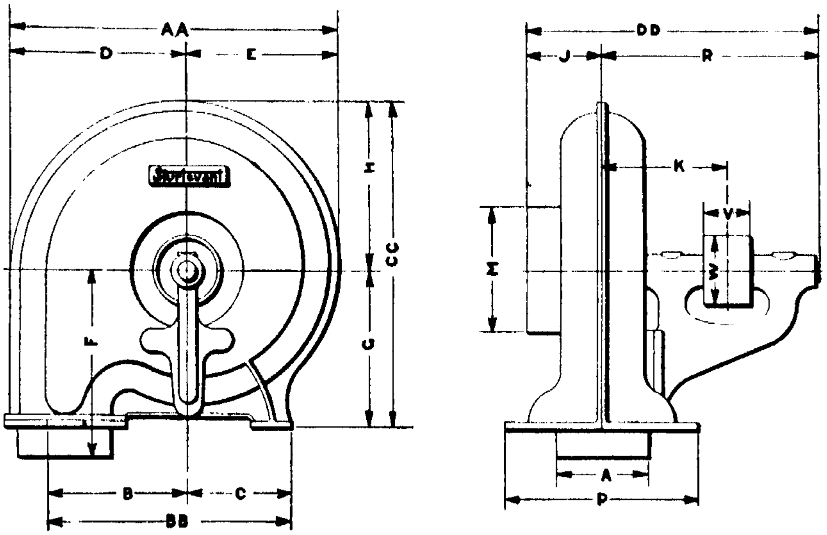
Note – The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet

Monogram Fan – Design 2

Single Width

Full Housing **Down Blast Discharge** **Overhung Wheel**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2 3/4	3 5/8	2 3/4	4 1/2	4 1/4	5 1/4	4 3/8	4 1/8		3 1/2	3 5/8	5 1/2	6	1 1/4	1 7/8	8 3/4	6 3/8	8 3/4	6 5/8	6	1/2	1/4
00	4 1/8	5 5/8	4 3/8	6 7/8	6 3/8	8 1/4	6 7/8	6 5/8	5 1/8	3	4 7/8	6 1/2	7 1/2	1 7/8	2 5/8	13 1/4	10	13	12 1/2	8 1/4	5/8	1/4
0	4 3/4	6 1/2	6	8 1/4	7 1/2	10	7 1/4	7 1/8	5 3/4	3 3/4	5 7/8	7 1/2	9	2 1/2	3	15 3/4	12	15 5/8	14 1/4	9 3/4	11/16	1/4
1	5 3/4	7 3/4	6 1/2	10 1/8	8 1/8	10 7/8	8	9	6 1/2	4 1/8	6 1/2	8 5/8	10	2 1/2	3 1/2	18 1/4	14 1/4	17	16 1/2	10 7/8	7/8	3/8
2	7 1/2	9 1/4	7 1/4	11 1/2	10	13 1/2	10	10 3/4	7 3/8	5 1/8	7 1/2	10 7/8	11 1/2	3 1/4	4 3/8	21 1/2	16 1/2	20 3/4	18 7/8	12 1/4	1	1/2
3	9	11	8 1/2	13 3/4	11 1/4	15 5/8	11 7/8	12 3/4	8 1/4	5 7/8	9	12	13 1/4	4	5 1/8	25 1/2	19 1/2	24 5/8	21 1/2	16	1 1/8	1/2
4	10 5/8	12 5/8	9 7/8	16 1/4	13 3/4	17 3/4	13 3/4	15	9 1/4	6 3/4	10 1/2	14 1/4	15 1/4	4 3/4	6	30	22 3/4	31	24 1/2	19	1 1/4	1/2
5	12 1/4	14 1/2	12	19	16 1/4	20 1/4	15 7/8	17 5/8	10 3/8	8	12 1/4	16 1/4	17 1/4	5 1/4	6 7/8	35 1/4	26 1/2	33 1/2	28 1/8	21 1/2	1 3/8	5/8
6	14 3/8	17 1/4	12 1/2	22 1/4	18 1/4	22 1/4	18	20 1/2	11 7/8	9 1/2	15	19	20 1/4	6 1/2	8	41	29 3/4	38 1/2	32 1/8	26	1 1/2	5/8
7	16 5/8	19 1/2	17	26	22	26	21 1/4	24	14 1/2	11 3/4	16 5/8	21	23 3/4	7 1/2	8 7/8	48	36 1/2	45 1/4	38 1/4	30 1/4	1 11/16	5/8
8	18 3/4	21 1/2	18	29 1/8	25 1/8	29 1/4	24 1/8	27 1/8	17 1/2	13 1/2	18 5/8	27 1/2	28	8 7/8	10 1/4	54 1/4	39 1/2	51 1/4	45 1/2	36	2 3/4	3/4
9	21 3/4	25 1/8	18 7/8	34 1/4	28 3/4	33	27 1/2	31 1/2	19 1/2	15 3/8	21 1/2	32	31	10 1/2	12	63	44	59	50 1/2	40	2 7/16	7/8
10	24 5/8	29 3/4	23 1/2	40 1/2	34 1/2	37 1/2	31 5/8	37 1/2	21 1/4	19 3/8	24 1/2	36 1/4	38 3/4	11 1/4	13 3/4	75	53 1/4	69 1/8	60 1/2	48	2 11/16	1

Note – The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

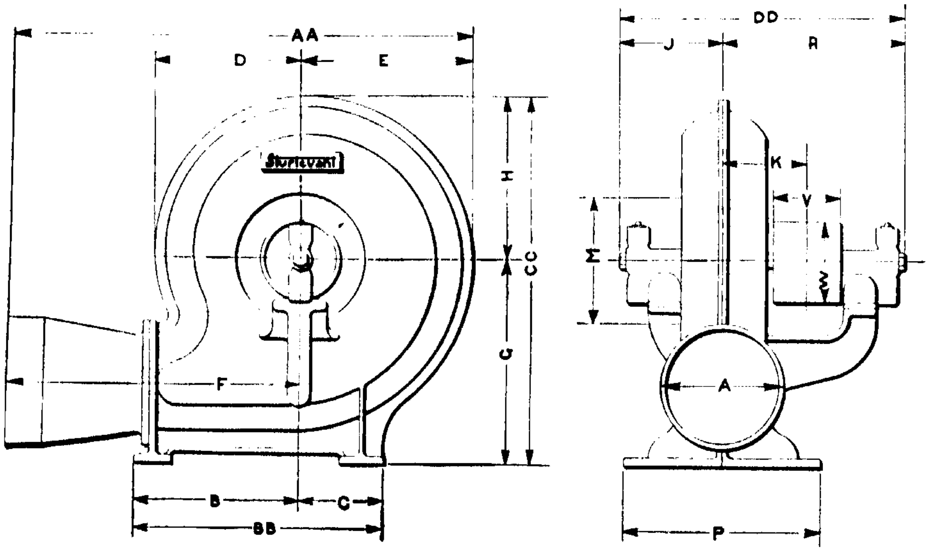
Double Inlet

Monogram Fan – Design 2

Single Width

Full Housing

Bottom Horizontal Discharge

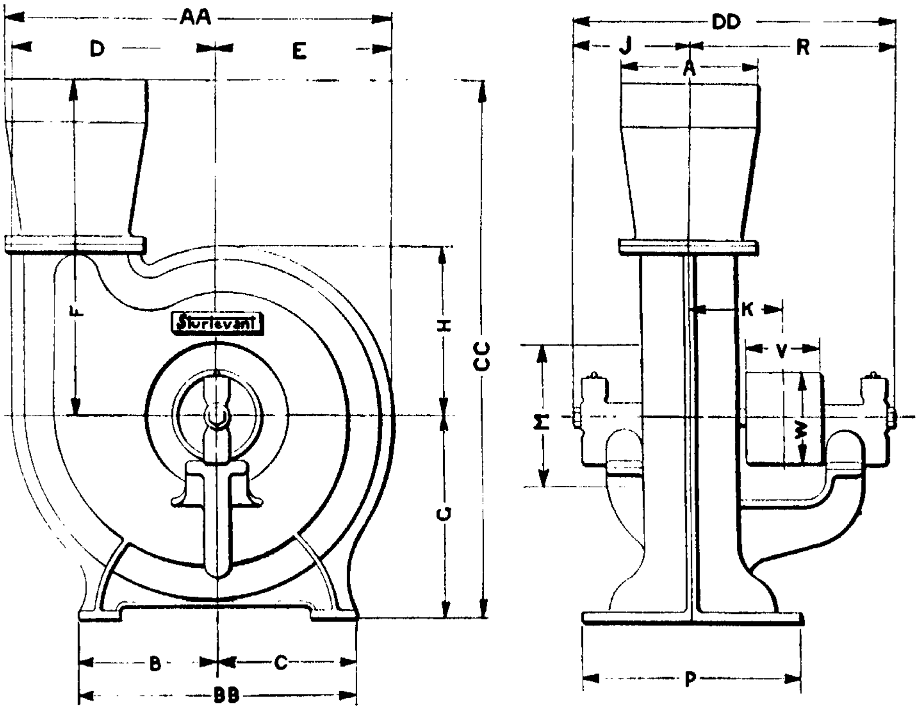


Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	Anchor Bolts
0000	2¾	4⅜	2¼	4⅛	4⅜	5⅛	5½	4¼	1 3/16	3½	3 5/16	5½	6⅛	1¼	1⅞	9½	7	9¾	8⅞	6	½	¼
00	4⅛	7	3	6⅛	6⅝	8¼	7⅞	6⅜	5⅛	3	4½	6½	7½	1⅞	2⅜	11⅞	10	14¼	12⅝	8¼	9/16	¼
0	4¾	8⅝	3⅝	7⅛	7⅞	10⅛	9	7½	5¼	3½	5⅜	7¾	8¼	2½	3	18	12¼	16½	14½	9¾	11/16	¼
1	5⅝	9	4½	7¾	9	11	10¼	8⅝	6¼	1	6⅛	9	10	2½	3½	20	13½	19⅛	16¼	10⅞	¾	⅜
2	9½	11	5½	9¼	10¾	19½	12⅜	10	7⅜	5⅛	7½	10	11½	3¼	4⅜	30¼	16½	22⅝	18⅞	12¼	15/16	½
3	11	13	7	10¼	12¾	23¾	14¾	11¾	8¼	5⅝	8⅝	12	13¼	4	5⅛	36½	20	26½	21½	16	15/16	½
4	13½	15¼	7½	12½	15	25⅝	17¼	13¼	9¼	6¼	10⅛	14	15¼	4¾	6	40⅝	22¾	31	24½	19	1	⅝
5	14½	17½	9½	14⅞	17⅜	30⅜	20	16¼	10½	8	11¾	16½	17½	5¼	6⅞	48	27	36¼	28	21½	1⅛	⅝
6	16	20	11	17	20½	32½	23	18¾	11⅞	9½	14⅜	19	20¼	6½	8	53	31	41¾	32⅛	26	1 5/16	⅝
7	22	23⅜	12¾	20	24	50	28	22	14½	11¾	16	24	23¾	7½	8⅞	74	36⅜	50	38¼	30¾	1½	¾
8	26	26¼	13¾	23⅛	27⅛	56⅛	31½	25⅛	17½	13½	18	27½	28	8⅞	10¼	83¼	40½	56⅝	45½	36	1 11/16	¾
9	30	30⅜	16½	26	31½	64	37	28¾	19½	15⅜	21	31¼	31	10½	12	95½	46⅞	65¾	50½	40	1 15/16	⅞
10	34	34¾	21¾	31½	37½	71½	43	34½	21⅞	19¼	24	36¼	38¾	11¼	13¾	109	56½	77½	60½	48	2 3/16	1

Double Inlet **Single Width**

Monogram Fan — Design 2

Full Housing **Up Blast Discharge**

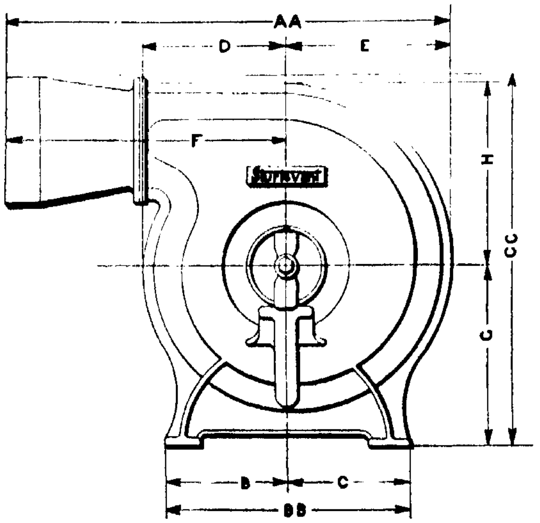


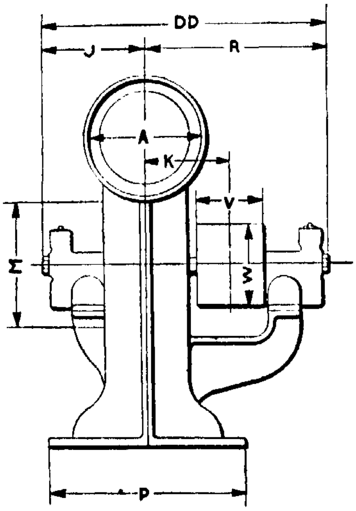
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2¾	3½	2½	4½	4¼	5⅛	5½	4⅛	1 3/16	3½	3 5/16	5½	6⅛	1¼	1⅞	9⅜	6	10⅜	8⅞	6	½	¼
00	4⅛	4⅞	4⅞	6⅞	6⅜	8¼	6⅞	6⅛	5⅛	3	4½	6½	7½	1⅞	2⅜	14⅞	9¾	15⅛	12⅝	8¼	9/16	¼
0	4¼	5⅛	5¼	8¼	7½	10⅛	8½	7⅛	5¾	3½	5⅜	7¾	8¾	2½	3	16¼	10⅞	18⅝	11½	9¾	11/16	¼
1	5⅝	6⅞	5⅜	9⅝	8⅜	11	10	7¾	6¼	4	6⅛	9	10	2½	3½	18⅝	12¼	21	16¼	10⅞	¾	⅜
2	9½	7¼	7¼	11½	10	19½	12¼	9¼	7⅜	5⅛	7½	10	11½	3¼	4⅛	22½	14½	31¾	18⅞	12¼	13/16	½
3	11	8½	8½	13¾	11¼	23¼	15¼	10¼	8¼	5⅝	8⅜	12	13¼	4	5⅛	26½	17	39	21½	16	15/16	½
4	13½	10	10	16¼	13¼	25⅝	17⅛	12½	9¼	6¾	10⅛	14	15¼	4¾	6	31¼	20	42¾	24½	19	1	⅝
5	14½	12¼	12¼	19	16¼	30⅜	20¼	11⅞	10½	8	11¾	16½	17½	5¼	6⅞	36	24½	50⅝	28	21½	1⅛	⅝
6	16	19	12	22¼	18¼	32½	23½	17	11⅞	9½	14⅞	19	20¼	6½	8	41¼	31	56	32¼	26	1 5/16	⅝
7	22	16	16	26	22	50	27¼	20	14½	11¼	16	24	23¾	7½	8¾	49¾	32	77¾	38¼	30¾	1½	¾
8	26	18	18	29⅛	25⅛	56⅛	30⅞	23⅛	17½	13½	18	27½	28	8⅞	10¼	56⅞	36	87	45¼	36	1 11/16	¾
9	30	20¼	20¼	34¼	28¼	64	35½	26	19½	15⅜	21	31¼	31	10½	12	65¼	40½	99½	50½	40	1 15/16	⅞
10	34	23½	23½	40½	31½	71½	39⅝	31½	21¼	19⅜	24	36¼	38¾	11¼	13¾	77¾	47	111⅛	60½	48	2 3/16	1

Double Inlet **Single Width**

Monogram Fan—Design 2

Full Housing **Top Horizontal Discharge**



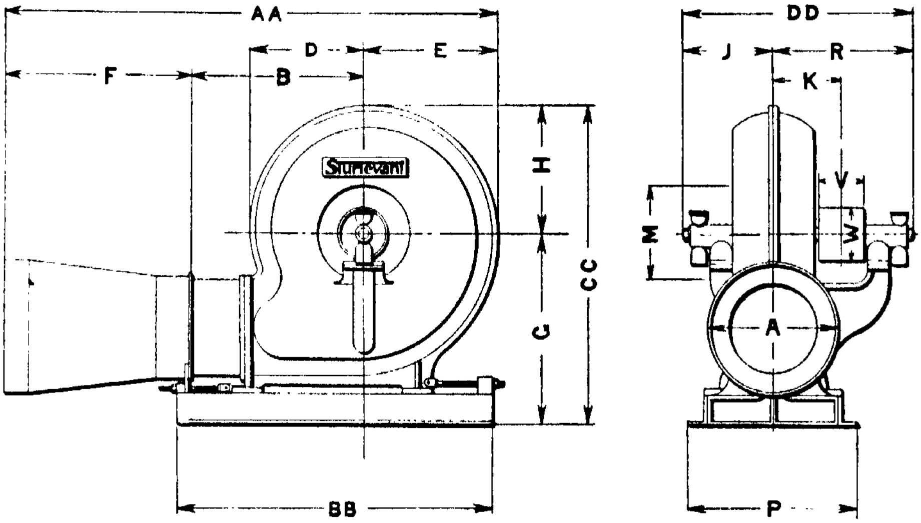


Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Dia.	Anchor Bolts
0000	2¾	3	3	4⅛	4⅝	5⅛	5	4½	1 3/16	3½	3 5/16	5½	6⅛	1¼	1⅞	9½	6	10⅜	8⅞	6	½	¼
00	4⅛	4¾	5	6⅛	6⅝	8¼	6⅜	6⅞	5⅛	3	4½	6½	7½	1⅞	2⅝	14⅞	9¼	14⅜	12⅜	8¼	9/16	¼
0	4¾	5⅛	5¼	7⅛	7⅛	10⅛	8¾	8¼	5¾	3½	5⅜	7¾	8¾	2½	3	18	10⅜	17½	14½	9¾	11/16	¼
1	5⅝	7⅜	5⅞	7¾	9	11	9	9⅝	6¼	4	6⅛	9	10	2½	3½	20	13⅛	19¼	16¼	10⅞	¾	⅜
2	9½	6	6⅞	9¼	10¾	19½	10⅝	11½	7⅞	5⅛	7½	10	11½	3¼	4⅝	30¼	12⅞	22⅞	18⅞	12¼	13/16	½
3	11	7⅞	8⅝	10¾	12¾	23¾	13	13¾	8¼	5⅝	8⅝	12	13¼	4	5⅛	36½	16	27¾	21½	16	15/16	½
4	13½	11½	11¼	12½	15	25⅝	15½	16¼	9¼	6¾	10⅛	14	15¼	4¾	6	40⅝	22½	33	24½	19	1	⅝
5	14½	12¼	12¼	14⅞	17⅝	30⅞	18⅞	19	10½	8	11¾	16½	17½	5¼	6⅞	48	24½	38⅝	28	21½	1⅛	⅝
6	16	17	13¾	17	20½	32¼	22	22¼	11⅞	9½	11⅞	19	20¼	6½	8	53	30¾	44½	32⅛	26	1 5/16	⅝
7	22	16¼	15¾	20	24	50	23½	26	14½	11¾	16	24	23⅞	7½	8⅞	74	32	51¼	38¼	30¾	1½	¾
8	26	17¼	17¾	23⅛	27⅛	56⅛	28	29⅛	17½	13½	18	27½	28	8⅞	10¼	83¼	35½	59¼	45½	36	1 11/16	¾
9	30	20¼	20¼	26	31½	64	32½	34¼	19½	15⅞	21	31¼	31	10½	12	95½	40½	69½	50½	40	1 15/16	⅞
10	34	23½	23½	31½	37½	71½	36	40½	21¾	19⅜	24	36¼	38¾	11¼	13¾	109	47	79¼	60½	48	2 3/16	1

Double Inlet **Single Width**

Monogram Blower with Adjustable Bed
Design 2

Full Housing **Bottom Horizontal Discharge**



Fan Size	A	B	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
1	13½	25¾	12½	15	20¼	20¾	13¾	9¼	6¼	10⅜	19	15¼	4¾	6	61½	39	34½	24½	19	1	⅝
5	14½	29⅜	14⅞	17⅜	24	24½	16¼	10½	8	11¾	22¾	17½	5¼	6⅞	70¼	44	40¾	28	21½	1⅛	⅝
6	16	32¼	17	20½	25	27⅝	18¾	11⅞	9½	14⅛	25¼	20¼	6½	8	77¾	51	46⅝	32⅛	26	1 5/16	⅝
7	22	36½	20	24	32½	33	22	14½	11¾	16	31	23¼	7½	8⅞	93	60	55	38¼	30¾	1½	¾
8	26	41⅞	23⅛	27⅜	36	37½	25⅛	17½	13½	18	33¼	28	8⅞	10¼	105	64	62⅝	45½	36	1 11/16	¾
9	30	47¼	26	31½	44	45	28¾	19½	15⅜	21	39¼	31	10½	12	123¼	79¼	73¼	50½	40	1 15/16	⅞
10	34	51½	31½	37½	49¾	51	34½	21¼	19⅜	24	42	38¾	11¼	13¾	141¼	93½	85½	60½	48	2 3/16	1

Single Inlet **Single Width**

No. 0000 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P M	Tip Speed F M P.	S N. D in inches	S N.D. H P.	Static Pressure 1" Water .578 ozs per sq inch		Static Pressure 2" Water 1.16 ozs per sq inch		Static Pressure 3" Water 1.73 ozs per sq. inch		Static Pressure 4" Water 2.31 ozs per sq inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3 47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M	H.P.	Volume C F M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
3180	5000	1.93	.01	103	0.045												
3340	5250	2.12	.01	113	0.053	53	0.032										
3500	5500	2.33	.02	123	0.063	69	0.043										
3650	5750	2.55	.02	132	0.073	85	0.055										
3810	6000	2.77	.02	141	0.083	98	0.067										
3970	6250	3.01	.02	149	0.094	109	0.079	50	0.046								
4130	6500	3.25	.03	158	0.105	121	0.093	70	0.063								
4300	6750	3.51	.03	167	0.120	132	0.105	87	0.081								
4450	7000	3.77	.03	176	0.135	143	0.125	101	0.097								
4600	7250	4.05	.04	183	0.150	153	0.140	115	1.115	58	0.072						
4770	7500	4.34	.04	192	0.170	162	0.155	127	0.135	81	0.093						
4930	7750	4.63	.04	200	0.190	172	0.175	139	0.155	98	0.115						

Single Inlet **Single Width**

No. 00 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R P M	Tip Speed F M P	S N D in inches	S N D H P	Static Pressure 1" Water .578 ozs per sq. inch		Static Pressure 2" Water 1.16 ozs per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq inch		Static Pressure 7" Water 4.05 ozs. per sq inch	
				Volume C.F M	H. P.	Volume C F.M.	H. P.	Volume C F.M.	H. P.	Volume C.F.M	H P.	Volume C.F.M	H P.	Volume C.F.M	H. P	Volume C F.M.	H P
2310	5000	1.93	.03	232	0.100												
2430	5250	2.12	.03	255	0.120	121	0.072										
2540	5500	2.33	.04	278	0.145	157	0.098										
2660	5750	2.55	.04	298	0.165	192	0.125										
2780	6000	2.77	.05	318	0.185	221	0.150										
2890	6250	3.01	.05	338	0.215	247	0.180	112	0.105								
3010	6500	3.25	.06	358	0.245	274	0.210	159	0.145								
3120	6750	3.51	.07	378	0.275	298	0.245	198	0.185								
3240	7000	3.77	.07	398	0.305	322	0.280	229	0.220								
3360	7250	4.05	.08	415	0.340	345	0.315	260	0.260	130	0.165						
3470	7500	4.34	.09	535	0.380	367	0.350	288	0.305	183	0.210						
3580	7750	4.63	.10	454	0.425	389	0.395	314	0.350	221	0.265						
3700	8000	4.93	.11	470	0.470			339	0.395	254	0.320	126	0.205				
3820	8250	5.25	.12	490	0.520			364	0.445	286	0.375	184	0.275				
3930	8500	5.56	.13	508	0.570			388	0.495	312	0.435	224	0.335				
4050	8750	5.90	.14	525	0.630			411	0.550	342	0.490	260	0.400	135	0.265		
4170	9000	6.23	.16	543	0.680			433	0.600	367	0.550	291	0.460	191	0.345		
4280	9250	6.60	.17	561	0.740			456	0.670	394	0.620	322	0.530	235	0.420		
4400	9500	6.95	.19	579	0.790			477	0.730	417	0.680	352	0.610	271	0.495	158	0.355
4510	9750	7.33	.20	597	0.860					442	0.750	378	0.680	307	0.580	214	0.450
4630	10000	7.70	.22	615	0.930					465	0.820	404	0.750	336	0.660	254	0.530
4750	10250	8.10	.23	632	1.000					488	0.890	430	0.830	367	0.740	292	0.630
4860	10500	8.50	.25	648	1.100					510	0.960	455	0.900	395	0.820	326	0.720
4980	10750	8.90	.27	665	1.150					532	1.050	480	0.980	421	0.910	358	0.810

Single Inlet

No. 0 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M	S N.D. in inches	S.N.D H.P.	Static Pressure 1" Water .578 ozs. per sq inch		Static Pressure 2" Water 1.16 ozs per sq. inch		Static Pressure 3" Water 1.73 ozs per sq inch		Static Pressure 4" Water 2.31 ozs. per sq inch		Static Pressure 5" Water 2.89 ozs per sq inch		Static Pressure 6" Water 3.47 ozs. per sq inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H.P	Volume C.F.M.	H. P	Volume C.F.M.	H P	Volume C.F.M.	H. P.	Volume C.F.M	H. P	Volume C.F.M.	H.P.	Volume C.F.M.	H. P.
1960	5000	1.93	.04	335	0.145												
2050	5250	2.12	.04	367	0.175	174	0.105										
2150	5500	2.33	.05	400	0.205	226	0.140										
2250	5750	2.55	.06	430	0.240	276	0.180										
2350	6000	2.77	.07	460	0.270	318	0.220										
2440	6250	3.01	.08	487	0.305	356	0.260	162	0.150								
2540	6500	3.25	.09	516	0.350	395	0.305	230	0.205								
2640	6750	3.51	.10	454	0.395	430	0.350	284	0.265								
2740	7000	3.77	.11	573	0.440	465	0.400	330	0.320								
2840	7250	4.05	.12	598	0.490	497	0.455	374	0.380	188	0.235						
2940	7500	4.34	.13	626	0.550	529	0.510	415	0.440	261	0.305						
3030	7750	4.63	.14	653	0.610	560	0.570	453	0.500	318	0.385						
3130	8000	4.93	.16	679	0.680			488	0.570	366	0.465	184	0.295				
3230	8250	5.25	.17	706	0.750			524	0.640	412	0.540	265	0.395				
3320	8500	5.56	.19	732	0.820			559	0.720	450	0.620	323	0.485				
3420	8750	5.90	.21	757	0.900			592	0.800	493	0.710	375	0.580	194	0.385		
3520	9000	6.23	.23	782	0.980			623	0.870	530	0.790	419	0.670	276	0.495		
3620	9250	6.60	.25	809	1.050			657	0.960	568	0.890	464	0.770	339	0.610		
3720	9500	6.95	.27	835	1.150			688	1.050	601	0.980	505	0.880	390	0.720	228	0.510
3810	9750	7.33	.29	860	1.250					636	1.100	545	0.980	443	0.830	308	0.640
3910	10000	7.70	.31	886	1.350					670	1.150	581	1.100	485	0.940	366	0.760
4010	10250	8.10	.33	910	1.450					703	1.300	620	1.200	528	1.050	421	0.900
4110	10500	8.50	.36	934	1.550					734	1.400	655	1.300	570	1.200	469	1.050
4210	10750	8.90	.39	958	1.700					765	1.500	690	1.400	606	1.300	516	1.150
4300	11000	9.31	.42	985	1.850					797	1.650	724	1.550	644	1.450	558	1.300
4400	11250	9.74	.44	1010	1.950							757	1.650	680	1.550	599	1.450
4500	11500	10.2	.47	1040	2.100							791	1.800	720	1.750	640	1.600

R P.M	Tip Speed F.P.M	S.N D. in inches	S.N D H P	Static Pressure 8" Water 4.63 ozs per sq inch		Static Pressure 9" Water 5.2 ozs per sq. inch		Static Pressure 10" Water 5.78 ozs per sq inch		Static Pressure 11" Water 6.36 ozs per sq inch	
4010	10250	8.10	.33	266	0.700						
4110	10500	8.50	.36	219	0.830						
4210	10750	8.90	.39	407	0.980	251	0.720				
4300	11000	9.31	.42	458	1.100	335	0.910				
4400	11250	9.74	.44	506	1.250	394	1.060	214	0.780		
4500	11500	10.20	.47	553	1.400	453	1.250	328	0.980		
4600	11750	10.60	.51	596	1.600	500	1.400	371	1.150	183	0.780
4700	12000	11.10	.51	640	1.750	550	1.460	453	1.350	325	1.000

Single Inlet **Single Width**

No. 1 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M	S N D in inches	S N D. H.P	Static Pressure 1" Water 578 ozs. per sq inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs per sq. inch		Static Pressure 4" Water 2 31 ozs per sq inch		Static Pressure 5" Water 2 89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P	Volume C.F.M.	H. P.	Volume C F.M.	H. P.	Volume C.F.M.	H P.	Volume C.F.M.	H. P.
1760	5000	1.93	.06	476	0.210												
1840	5250	2.12	.06	523	0.245	248	0.150										
1930	5500	2.33	.07	570	0.295	322	0.200										
2020	5750	2.55	.08	611	0.340	394	0.255										
2100	6000	2.77	.10	654	0.385	454	0.310										
2190	6250	3.01	.11	693	0.435	507	0.365	230	0.215								
2280	6500	3.25	.12	735	0.500	562	0.430	326	0.290								
2370	6750	3.51	.14	775	0.560	611	0.500	405	0.375								
2460	7000	3.77	.15	815	0.630	661	0.570	470	0.450								
2550	7250	4.05	.17	852	0.700	708	0.650	533	0.540	267	0.335						
2630	7500	4.34	.19	892	0.780	752	0.720	591	0.620	376	0.435						
2720	7750	4.63	.21	930	0.870	798	0.810	645	0.710	454	0.540						
2810	8000	4.93	.23	965	0.970			695	0.810	521	0.660	258	0.42				
2900	8250	5.25	.25	1000	1.050			745	0.910	587	0.770	377	0.56				
2980	8500	5.56	.27	1040	1.150			796	1.000	640	0.890	460	0.69				
3070	8750	5.90	.30	1080	1.300			844	1.150	701	1.000	534	0.83	276	0.55		
3160	9000	6.23	.32	1110	1.400			886	1.250	754	1.100	596	0.95	393	0.71		
3250	9250	6.60	.35	1150	1.500			935	1.350	810	1.250	660	1.10	483	0.86		
3330	9500	6.95	.38	1190	1.650			980	1.500	855	1.400	720	1.25	555	1.00	324	0.72
3420	9750	7.33	.41	1230	1.750					906	1.550	775	1.40	630	1.20	440	0.92
3510	10000	7.70	.44	1260	1.900					953	1.650	827	1.55	690	1.35	522	1.10
3600	10250	8.10	.48	1300	2.050					1000	1.800	882	1.70	752	1.50	600	1.30
3690	10500	8.50	.51	1330	2.200					1040	2.000	932	1.85	810	1.70	669	1.45
3780	10750	8.90	.55	1360	2.400					1090	2.150	983	2.00	864	1.85	735	1.65
3860	11000	9.30	.59	1400	2.600					1130	2.300	1030	2.20	916	2.05	795	1.85
3950	11250	9.74	.63	1440	2.750							1080	2.35	968	2.20	853	2.05
4040	11500	10.2	.67	1470	2.950							1130	2.55	1020	2.45	912	2.25

R P M	Tip Speed F.P M	S N D in inches	S N D H P	Static Pressure 8" Water 4 63 ozs per sq inch		Static Pressure 9" Water 5 2 ozs per sq inch		Static Pressure 10" Water 5.78 ozs per sq. inch		Static Pressure 11" Water 6 36 ozs per sq inch	
3600	10250	8.10	.48	378	1.000						
3690	10500	8.50	.51	496	1.200						
3780	10750	8.90	.55	579	1.400	357	1.050				
3860	11000	9.30	.59	651	1.600	477	1.300				
3950	11250	9.74	.63	720	1.800	560	1.500	304	1.100		
4040	11500	10.20	.67	787	2.000	645	1.750	467	1.400		
4150	11750	10.60	.72	849	2.250	720	2.000	537	1.650	260	1.100
4250	12000	11.10	.76	910	2.500	785	2.250	645	1.950	462	1.400

Single Inlet

No. 2 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
1560	5000	1.91	0.06	642	0.255	212	0.115										
1639	5250	2.10	0.07	706	0.310	367	0.185										
1718	5500	2.31	0.09	765	0.365	475	0.255										
1795	5750	2.52	0.10	822	0.43	518	0.31										
1871	6000	2.75	0.11	873	0.50	625	0.38										
1950	6250	2.98	0.13	925	0.58	688	0.44	358	0.275								
2030	6500	3.23	0.14	975	0.68	754	0.52	484	0.375								
2110	6750	3.48	0.16	1,030	0.79			578	0.47								
2180	7000	3.74	0.18	1,080	0.90			658	0.56								
2260	7250	4.01	0.20	1,120	1.00			730	0.65	448	0.45						
2340	7500	4.29	0.22	1,170	1.15			802	0.75	554	0.57						
2420	7750	4.58	0.24	1,210	1.30			877	0.86	650	0.70						
2490	8000	4.88	0.27	1,260	1.45			946	0.98	736	0.82	416	0.54				
2570	8250	5.20	0.29	1,300	1.60					813	0.95	564	0.72				
2650	8500	5.52	0.32	1,350	1.75					883	1.05	668	0.87				
2730	8750	5.85	0.35	1,390	1.9					957	1.20	760	1.05	451	0.70		
2810	9000	6.18	0.38	1,430	2.1					1,020	1.35	838	1.20	597	0.91		
2880	9250	6.53	0.41	1,470	2.3					1,090	1.5	918	1.35	708	1.10		
2960	9500	6.89	0.45	1,520	2.5							990	1.50	798	1.30	511	0.92
3045	9750	7.25	0.49	1,560	2.7							1,060	1.65	881	1.45	655	1.15
3120	10000	7.63	0.52	1,600	2.9							1,120	1.85	960	1.65	768	1.40
3200	10250	8.02	0.56	1,650	3.1							1,180	2	1,040	1.85	860	1.60
3280	10500	8.41	0.60	1,690	3.3									1,110	2.05	945	1.80
3350	10750	8.81	0.65	1,730	3.5									1,170	2.25	1,020	2.05
3430	11000	9.24	0.70	1,770	3.7									1,240	2.5	1,100	2.25
3510	11250	9.66	0.74	1,810	3.9									1,310	2.7	1,170	2.50
3590	11500	10.1	0.8	1,850	4.1											1,240	2.75

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch		Static Pressure 10′ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
3120	10000	7.63	0.52	428	0.98												
3200	10250	8.02	0.56	619	1.25												
3280	10500	8.41	0.60	745	1.50												
3350	10750	8.81	0.65	846	1.75	565	1.30										
3430	11000	9.24	0.70	938	2.00	715	1.65										
3510	11250	9.66	0.71	1,020	2.25	837	1.95	533	1.40								
3590	11500	10.10	0.80	1,100	2.50	933	2.20	713	1.75								
3670	11750	10.50	0.85	1,170	2.75	1,020	2.50	833	2.10	574	1.25						
3750	12000	11.00	0.90	1,240	3.0	1,100	2.75	935	2.45	715	2.00						
3830	12250	11.46	0.96	1,320	3.3	1,180	3.05	1,030	2.75	858	2.35	492	1.65				
3900	12500	11.92	1	1,390	3.6	1,250	3.5	1,110	3.05	943	2.7	710	2.2				

Single Inlet **Single Width**

No. 3 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
1193	5000	1.91	0.09	921	0.365	304	0.165										
1250	5250	2.10	0.10	1,010	0.44	527	0.27										
1312	5500	2.31	0.12	1,100	0.53	682	0.37										
1370	5750	2.52	0.14	1,180	0.61	786	0.45										
1430	6000	2.75	0.16	1,260	0.72	896	0.55										
1490	6250	2.98	0.18	1,330	0.84	987	0.63	515	0.395								
1550	6500	3.23	0.20	1,400	0.98	1,080	0.75	694	0.54								
1610	6750	3.48	0.23	1,470	1.15			829	0.67								
1670	7000	3.71	0.26	1,540	1.30			941	0.80								
1730	7250	4.01	0.29	1,610	1.45			1,050	0.93	643	0.65						
1790	7500	4.29	0.32	1,680	1.65			1,150	1.10	795	0.82						
1850	7750	4.58	0.35	1,740	1.85			1,260	1.25	932	1.00						
1910	8000	4.88	0.38	1,800	2.05			1,360	1.4	1,060	1.20	597	0.77				
1970	8250	5.20	0.42	1,860	2.30					1,170	1.35	810	1.05				
2030	8500	5.52	0.47	1,930	2.50					1,270	1.55	958	1.25				
2090	8750	5.85	0.50	1,990	2.75					1,370	1.75	1,090	1.50	648	1.00		
2150	9000	6.18	0.55	2,050	3.05					1,470	1.95	1,200	1.70	856	1.30		
2210	9250	6.53	0.59	2,110	3.30					1,570	2.2	1,320	1.90	1,020	1.60		
2270	9500	6.89	0.64	2,180	3.60							1,420	2.15	1,150	1.85	735	1.30
2330	9750	7.25	0.69	2,240	3.85							1,520	2.40	1,270	2.10	940	1.65
2390	10000	7.63	0.75	2,300	4.15							1,610	2.65	1,380	2.40	1,100	2.00
2450	10250	8.02	0.81	2,360	4.4							1,700	2.9	1,490	2.65	1,240	2.30
2510	10500	8.41	0.87	2,420	4.7									1,590	2.95	1,360	2.60
2570	10750	8.81	0.93	2,480	5.0									1,690	3.25	1,470	2.90
2630	11000	9.24	1.0	2,540	5.3									1,780	3.55	1,580	3.25
2690	11250	9.66	1.1	2,600	5.6									1,890	3.9	1,680	3.60
2740	11500	10.1	1.1	2,660	5.9											1,770	3.95
2800	11750	10.5	1.2	2,720	6.1											1,880	4.3
2860	12000	11.0	1.3	2,780	6.6											1,980	4.7
2920	12500	11.5	1.5	2,840	7.2											2,070	5.1

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch		Static Pressure 10″ Water 5.78 oz. per sq. inch		Static Pressure 11″ Water 6.36 oz. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 00″ Water 0.00 ozs. per sq. inch	
2390	10000	7.63	0.75	613	1.35												
2450	10250	8.02	0.81	887	1.80												
2510	10500	8.41	0.87	1,070	2.15												
2570	10750	8.81	0.93	1,210	2.50	810	1.90										
2630	11000	9.24	1.0	1,350	2.85	1,030	2.35										
2690	11250	9.66	1.1	1,460	3.25	1,200	2.80	765	2.05								
2740	11500	10.1	1.1	1,580	3.60	1,310	3.20	1,020	2.55								
2800	11750	10.5	1.2	1,680	3.95	1,460	3.60	1,190	3.05	737	1.80						
2860	12000	11.0	1.3	1,780	4.35	1,580	3.95	1,340	3.50	1,030	2.85						
2920	12250	11.5	1.4	1,890	4.7	1,700	4.35	1,480	3.95	1,210	3.4	706	2.35				
2980	12500	11.9	1.5	1,990	5.1	1,800	4.75	1,600	4.40	1,350	3.9	1,020	3.15				
3040	12750	12.4	1.6	2,090	5.5	1,900	5.2	1,710	4.85	1,490	4.4	1,230	3.75	762	2.75		

Single Inlet **Single Width**

No. 4 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1000	5000	1.98	0.07	1,040	0.435	534	0.26										
1050	5250	2.18	0.08	1,120	0.52	718	0.36										
1100	5500	2.39	0.09	1,210	0.62	850	0.45										
1150	5750	2.62	0.11	1,290	0.74	967	0.55										
1205	6000	2.85	0.12	1,370	0.83	1,070	0.66	484	0.365								
1250	6250	3.09	0.14	1,450	0.96	1,170	0.77	758	0.56								
1305	6500	3.31	0.15	1,520	1.05	1,270	0.89	916	0.70								
1355	6750	3.60	0.17	1,600	1.20			1,050	0.84								
1404	7000	3.88	0.19	1,670	1.35			1,160	0.98	664	0.65						
1455	7250	4.17	0.21	1,750	1.50			1,270	1.15	905	0.89						
1505	7500	4.45	0.23	1,820	1.70			1,370	1.3	1,060	1.05						
1555	7750	4.75	0.26	1,890	1.90			1,470	1.5	1,190	1.25	612	0.77				
1605	8000	5.07	0.28	1,970	2.15			1,570	1.7	1,310	1.45	933	1.10				
1655	8250	5.38	0.31	2,040	2.35					1,410	1.65	1,110	1.35				
1705	8500	5.71	0.34	2,110	2.60					1,520	1.85	1,250	1.60	685	1.05		
1755	8750	6.07	0.37	2,190	2.85					1,620	2.10	1,370	1.85	1,030	1.45		
1805	9000	6.41	0.41	2,250	3.10					1,720	2.35	1,490	2.10	1,210	1.80		
1855	9250	6.77	0.44	2,330	3.35					1,810	2.6	1,590	2.35	1,310	2.05	849	1.45
1910	9500	7.14	0.48	2,400	3.60							1,690	2.6	1,460	2.30	1,130	1.90
1960	9750	7.51	0.52	2,470	3.95							1,790	2.9	1,580	2.60	1,300	2.25
2000	10000	7.91	0.56	2,540	4.25							1,890	3.2	1,690	2.85	1,450	2.60
2055	10250	8.31	0.60	2,620	4.65							1,990	3.5	1,790	3.20	1,570	2.90
2110	10500	8.71	0.64	2,680	5.0									1,900	3.55	1,690	3.25
2155	10750	9.14	0.69	2,750	5.4									2,000	3.90	1,810	3.55
2210	11000	9.57	0.74	2,820	5.8									2,090	4.25	1,910	3.95
2260	11250	10.00	0.79	2,890	6.2									2,180	4.6	2,010	4.3
2310	11500	10.46	0.85	2,960	6.6											2,120	4.7
2360	11750	10.92	0.90	3,030	7.0											2,210	5.1
2410	12000	11.40	0.96	3,100	7.4											2,300	5.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2000	10000	7.91	0.56	1,070	2.05												
2055	10250	8.31	0.60	1,280	2.50												
2110	10500	8.71	0.64	1,430	2.85	995	2.20										
2155	10750	9.14	0.69	1,570	3.20	1,250	2.75										
2210	11000	9.57	0.74	1,700	3.60	1,440	3.20	932	2.30								
2260	11250	10.00	0.79	1,810	3.95	1,590	3.60	1,240	3.00								
2310	11500	10.46	0.85	1,930	4.4	1,720	4.00	1,450	3.55	932	2.55						
2360	11750	10.92	0.90	2,040	4.8	1,850	4.45	1,610	4.05	1,280	3.4						
2410	12000	11.40	0.96	2,140	5.2	1,960	4.9	1,740	4.50	1,480	4.0	949	2.85				
2460	12250	11.87	1.0	2,240	5.7	2,060	5.3	1,870	4.95	1,640	4.5	1,310	3.80				
2510	12500	12.35	1.1	2,340	6.2	2,180	5.8	2,000	5.4	1,790	5.0	1,520	4.45	985	3.25		
2560	12750	12.87	1.2	2,440	6.7	2,280	6.3	2,110	5.9	1,930	5.6	1,690	5.1	1,360	4.30		
2610	13000	13.36	1.2			2,380	6.8	2,210	6.4	2,040	6.0	1,840	5.6	1,560	5.0	1,070	3.75
2660	13250	13.90	1.3			2,480	7.3	3,330	7.0	2,160	6.6	1,980	6.2	1,760	5.7	1,460	4.9
2710	13500	14.40	1.4			2,580	7.9	2,420	7.5	2,260	7.1	2,100	6.7	1,900	6.3	1,630	5.6

Single Inlet

No. 5 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
888	5000	1.98	0.10	1,520	0.63	775	0.375										
933	5250	2.18	0.12	1,630	0.76	1,050	0.52										
977	5500	2.39	0.13	1,750	0.90	1,240	0.65										
1021	5750	2.62	0.15	1,870	1.05	1,410	0.80										
1065	6000	2.85	0.17	1,990	1.20	1,560	0.95	702	0.53								
1110	6250	3.09	0.20	2,100	1.40	1,700	1.1	1,110	0.81								
1155	6500	3.31	0.22	2,210	1.55	1,840	1.3	1,330	1.00								
1200	6750	3.60	0.25	2,320	1.75			1,530	1.20								
1245	7000	3.88	0.28	2,430	2.00			1,690	1.45	963	0.94						
1290	7250	4.17	0.31	2,540	2.20			1,850	1.65	1,320	1.30						
1330	7500	4.45	0.31	2,640	2.50			1,990	1.90	1,540	1.55						
1375	7750	4.75	0.38	2,750	2.80			2,130	2.15	1,730	1.85	890	1.10				
1421	8000	5.07	0.41	2,860	3.10			2,280	2.50	1,900	2.10	1,360	1.60				
1465	8250	5.38	0.45	2,970	3.40					2,060	2.40	1,610	2.00				
1510	8500	5.71	0.49	3,060	3.75					2,200	2.70	1,810	2.30	1,000	1.50		
1555	8750	6.07	0.54	3,180	4.15					2,350	3.05	1,990	2.65	1,490	2.15		
1600	9000	6.41	0.59	3,270	4.50					2,500	3.40	2,160	3.05	1,760	2.60		
1640	9250	6.77	0.64	3,390	4.85					2,630	3.75	2,320	3.1	1,940	2.95	1,240	2.10
1680	9500	7.14	0.69	3,490	5.3							2,450	3.8	2,120	3.35	1,640	2.80
1730	9750	7.51	0.75	3,590	5.7							2,610	4.2	2,290	3.75	1,890	3.38
1770	10000	7.91	0.81	3,690	6.2							2,750	4.6	2,450	4.15	2,100	3.75
1820	10250	8.31	0.87	3,800	6.7							2,890	5	2,610	4.65	2,280	4.2
1860	10500	8.71	0.93	3,890	7.3									2,760	5.2	2,450	4.7
1910	10750	9.14	1.0	4,000	7.9									2,900	5.7	2,620	5.2
1950	11000	9.57	1.1	4,100	8.4									3,040	6.2	2,770	5.7
2000	11250	10.00	1.1	4,200	9.0									3,180	6.7	2,920	6.3
2040	11500	10.46	1.2	4,300	9.6											3,070	6.9
2085	11750	10.92	1.3	4,400	10											3,220	7.5
2130	12000	11.40	1.4	4,510	11.											3,350	8.1

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
				Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
1770	10000	7.91	0.81	1,550	3.00												
1820	10250	8.31	0.87	1,860	3.65												
1860	10500	8.71	0.93	2,080	4.15	1,450	3.20										
1910	10750	9.14	1.0	2,200	4.70	1,810	3.95										
1950	11000	9.57	1.1	2,470	5.25	2,090	4.65	1,350	3.35								
2000	11250	10.00	1.1	2,640	5.8	2,310	5.2	1,810	4.4								
2040	11500	10.46	1.2	2,800	6.4	2,500	5.8	2,110	5.2	1,360	3.75						
2085	11750	10.92	1.3	2,960	7.0	2,690	6.5	2,340	5.9	1,860	4.9						
2130	12000	11.40	1.4	3,110	7.6	2,850	7.1	2,530	6.6	2,150	5.8	1,380	4.15				
2175	12250	11.87	1.5	3,250	8.3	3,000	7.7	2,720	7.2	2,390	6.5	1,900	5.5				
2220	12500	12.35	1.6	3,400	9.0	3,160	8.4	2,900	7.9	2,610	7.3	2,210	6.5	1,440	4.7		
2265	12750	12.87	1.7	3,550	9.7	3,310	9.1	3,060	8.6	2,810	8.1	2,460	7.3	1,980	6.2		
2310	13000	13.36	1.8			3,460	9.9	3,220	9.3	2,970	8.8	2,670	8.1	2,280	7.3	1,550	5.3
2350	12250	13.9	1.9			3,600	10.5	3,390	10.0	3,140	9.6	2,770	9.0	2,560	8.2	2,000	7.1
2395	13500	14.1	2.0			3,730	11.5	3,520	11.0	3,290	10.5	3,050	9.7	2,770	9.1	2,370	8.1

Single Inlet

No. 6 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
735	5000	1.98	0.13	1,910	0.79	975	0.47										
770	5250	2.18	0.15	2,050	0.95	1,310	0.66										
806	5500	2.39	0.17	2,200	1.15	1,550	0.82										
845	5750	2.62	0.19	2,350	1.35	1,770	1.00										
880	6000	2.85	0.22	2,500	1.50	1,960	1.20	885	0.66								
917	6250	3.09	0.25	2,640	1.75	2,110	1.40	1,380	1.00								
954	6500	3.34	0.28	2,780	1.95	2,320	1.65	1,670	1.25								
990	6750	3.60	0.31	2,920	2.20			1,920	1.55								
1030	7000	3.88	0.35	3,050	2.50			2,120	1.8	1,210	1.20						
1065	7250	4.17	0.39	3,190	2.80			2,320	2.1	1,650	1.60						
1100	7500	4.45	0.43	3,320	3.15			2,510	2.1	1,930	1.95						
1140	7750	4.75	0.47	3,460	3.50			2,680	2.7	2,170	2.30	1,120	1.40				
1175	8000	5.07	0.52	3,600	3.90			2,860	3.1	2,380	2.65	1,700	2.00				
1210	8250	5.38	0.57	3,730	4.30					2,580	3.00	2,020	2.50				
1250	8500	5.71	0.62	3,850	4.75					2,770	3.40	2,270	2.90	1,250	1.90		
1285	8750	6.07	0.68	3,990	5.20					2,960	3.85	2,500	3.35	1,870	2.65		
1320	9000	6.41	0.71	4,110	5.6					3,140	4.25	2,710	3.80	2,210	3.30		
1355	9250	6.77	0.80	4,250	6.1					3,300	4.7	2,910	4.25	2,440	3.75	1,550	2.65
1390	9500	7.14	0.87	4,370	6.6							3,080	4.75	2,670	4.20	2,060	3.5
1430	9750	7.51	0.94	4,510	7.2							3,270	5.3	2,880	4.75	2,380	4.1
1470	10000	7.91	1.0	4,640	7.8							3,450	5.8	3,080	5.3	2,640	4.7
1505	10250	8.31	1.1	4,770	8.5							3,630	6.3	3,270	5.9	2,870	5.3
1540	10500	8.71	1.2	4,890	9.1									3,460	6.5	3,080	5.9
1575	10750	9.14	1.3	5,020	9.9									3,640	7.1	3,300	6.5
1610	11000	9.57	1.4	5,150	10.5									3,820	7.8	3,480	7.2
1650	11250	10.00	1.4	5,280	11.5									3,980	8.4	3,660	7.9
1690	11500	10.46	1.5	5,400	12.0											3,800	8.6
1725	11750	10.92	1.6	5,530	13.0											4,040	9.4
1760	12000	11.40	1.8	5,670	13.5											4,210	10

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1470	10000	7.91	1.0	1,950	3.75												
1505	10250	8.31	1.1	2,330	4.55												
1540	10500	8.71	1.2	2,620	5.2	1,820	4.0										
1575	10750	9.14	1.3	2,870	5.9	2,280	5.0										
1610	11000	9.57	1.4	3,100	6.6	2,630	5.9	1,700	4.25								
1650	11250	10.00	1.4	3,310	7.3	2,900	6.6	2,270	5.5								
1690	11500	10.46	1.5	3,520	8.0	3,150	7.3	2,660	6.5	1,700	4.7						
1725	11750	10.92	1.7	3,720	8.8	3,380	8.2	2,950	7.4	2,330	6.2						
1760	12000	11.40	1.8	3,910	9.6	3,580	9.0	3,180	8.3	2,700	7.3	1,730	5.2				
1800	12250	11.87	1.9	4,090	10.5	3,770	9.7	3,420	9.0	3,010	8.2	2,390	6.9				
1835	12500	12.35	2.0	4,280	11.5	3,970	10.5	3,060	9.9	3,280	9.2	2,870	8.1	1,810	5.9		
1870	12750	12.87	2.1	4,460	12	4,160	11.5	3,850	11.0	3,530	10	3,090	9.2	2,480	7.8		
1910	13000	13.36	2.2			4,350	12.5	4,050	11.5	3,730	11	3,360	10.0	2,860	9.1	1,950	6.8
1915	13250	13.9	2.4			4,530	13.5	4,250	13.0	3,950	12	3,610	11.5	3,210	10.5	2,620	8.9
1980	13500	14.4	2.5			4,690	14.5	4,420	13.5	4,140	13	3,830	12.5	3,480	11.5	2,980	10

Single Inlet

No. 7 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. In inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
621	5000	1.98	0 23	3,510	1.45	1,800	0.87										
652	5250	2.18	0 27	3,780	1.75	2,420	1.20										
683	5500	2 30	0 31	4,060	2.05	2,800	1.50										
713	5750	2.62	0.36	4,330	2 50	3,260	1 85										
745	6000	2 85	0 40	4,600	2 80	3,610	2 2	1,630	1 25								
775	6250	3 09	0 46	4,870	3 20	3,940	2.6	2,550	1 85								
807	6500	3 34	0.51	5,120	3 60	4,270	3 0	3,080	2.35								
838	6750	3.60	0 57	5,370	4 1			3,510	2 80								
870	7000	3 88	0 64	5,630	4 6			3,910	3 30	2,230	2.20						
900	7250	4 17	0 71	5,880	5 1			4,280	3 85	3,050	3 0						
930	7500	4 45	0 79	6,120	5 8			4,620	4.40	3,560	3.6						
960	7750	4 75	0 87	6,370	6 4			4,940	4 95	4,000	4.2	2,060	2.60				
992	8000	5 07	0 96	6,640	7.2			5,270	5 7	4,390	4 9	3,140	3 75				
1022	8250	5.38	1 0	6,880	7 9					4,760	5 6	3,720	4 60				
1055	8500	5 71	1 1	7,100	8.7					5,100	6 2	4,190	5 4	2,310	3 45		
1085	8750	6 07	1 3	7,360	9.6					5,450	7 1	4,610	6.2	3,460	4 95		
1115	9000	6.41	1 4	7,580	10 5					5,780	7 9	5,000	7 0	4,070	6 1		
1150	9250	6 77	1 5	7,850	11.5					6,100	8.7	5,360	7 9	4,490	6 9	2,860	4 9
1180	9500	7 14	1 6	8,070	12 0							5,670	8.8	4,920	7.8	3,790	6 5
1210	9750	7 51	1 7	8,310	13.0							6,010	9 7	5,300	8 7	4,370	7.6
1240	10000	7 91	1 9	8,550	14 5							6,370	10 5	5,670	9 7	4,870	8 7
1275	10250	8 31	2 0	8,800	15 5							6,690	11 5	6,040	11.0	5,290	9 8
1305	10500	8 71	2 2	9,020	17 0									6,390	12 0	5,670	11 0
1335	10750	9 11	2 3	9,260	18 0									6,710	13 0	6,080	12 0
1370	11000	9 57	2 5	9,490	19.5									7,050	14 5	6,410	13 5
1400	11250	10 00	2 7	9,730	21.0									7,350	15.5	6,760	14 5
1430	11500	10 46	2 8	9,950	22.0											7,110	16.0
1460	11750	10 92	3 0	10,200	23 5											7,450	17.5
1490	12000	11.40	3 2	10,500	25											7,760	19

R.P.M.	Tip Speed F.P.M.	S.N.D. In inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1240	10000	7.91	1.9	3,600	7.0												
1275	10250	8 31	2 0	4,300	8.4												
1305	10500	8 71	2 2	4,830	9.6	3,350	7 4										
1335	10750	9 14	2 3	5,300	11.0	4,220	9 2										
1370	11000	9 57	2 5	5,730	12 0	4,850	11 0	3,140	7 8								
1400	11250	10 00	2 7	6,100	13 5	5.350	12.0	4,200	10 0								
1430	11500	10.46	2 8	6,500	15 0	5,810	13.5	4,900	12.0	3,140	8 7						
1460	11750	10.92	3 0	6,870	16 0	6,230	15 0	5,410	13 5	4,300	11 5						
1490	12000	11.40	3 2	7,200	17.5	6,010	16 5	5,880	15.0	4,970	13.5	3,200	9 6				
1520	12250	11.87	3.4	7,550	19.0	6,950	18.0	6,310	16.5	5,550	15 0	4,410	13				
1550	12500	12.35	3 7	7,890	21.0	7,330	19 5	6,740	18 5	6,030	17 0	5,120	15	3,320	11.0		
1585	12750	12 87	3 9	8,230	22 5	7,680	21	7,100	20 0	6,500	18 5	5,680	17	4,580	14.5		
1612	13000	13.36	4.1			8,010	23	7,460	21 5	6,880	20	6,190	19	5,280	17		

Single Inlet **Single Width**

No. 8 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
529	5000	1 98	0 03	4,540	1.90	2,320	1.15										
556	5250	2 18	0 04	4,890	2 30	3,130	1.55										
583	5500	2 39	0 04	5,250	2 70	3,700	1 95										
609	5750	2 62	0 05	5,610	3 20	4,210	2.40										
635	6000	2 85	0 05	5,950	3 60	4,660	2 85	2,110	1 68								
663	6250	3 09	0 06	6,300	4 15	5,090	3 35	3,300	2 40								
688	6500	3.34	0 07	6,620	4 7	5,520	3 9	3,990	3.00								
714	6750	3 60	0 07	6,950	5 3			4,580	3 65								
741	7000	3 88	0 08	7,270	5 9			5,050	4 30	2,890	2 85						
567	7250	4.17	0 09	7,590	6 6			5,540	4 95	3,940	3 85						
795	7500	4 45	0 10	7,910	7 5			5,970	5.7	4,610	4 65						
820	7750	4 75	0 11	8,240	8 3			6,380	6 4	5,170	5.5	2,660	3.35				
848	8000	5 07	0 12	8,580	9 3			6,810	7 4	5,680	6 3	4,060	4 85				
875	8250	5 38	0 14	8,890	10 0					6,150	7 2	4,810	6.00				
900	8500	5 71	0.15	9,170	11 5					6,600	8 1	5,410	6 9	2,990	4.5		
927	8750	6 07	0 16	9,520	12 5					7,050	9 2	5,970	8 0	4,470	6 4		
955	9000	6 41	0 18	9,800	13 5					7,470	10	6,470	9.1	5,260	7.8		
980	9250	6 77	0 19	10,200	14 5					7,860	11	6,930	10.0	5,810	8.9	3,700	6.4
1005	9500	7 14	0 21	10,500	16 0							7,340	11.5	6,360	10.0	4,900	8.4
1030	9750	7 51	0 22	10,800	17 0							7,800	12 5	6,800	11.5	5,660	9 8
1060	10000	7 91	0 24	11,100	18 5							8,240	14	7,340	12.5	6,300	11.5
1085	10250	8 31	0.26	11,400	20 0							8,650	15	7,810	14 0	6,850	12.5
1115	10500	8 71	0 28	11,700	22.0									8,250	15.5	7,340	14.0
1140	10750	9 14	0 30	12,000	23 5									8,690	17.0	7,850	15.5
1165	11000	9 57	0 32	12,300	25									9,110	18 5	8,290	17.0
1195	11250	10 00	0 35	12,600	27									9,510	20	8,740	18.5
1215	11500	10 46	0.37	12,900	29											9,200	20.5
1245	11750	10 92	0 39	13,200	31											9,640	22 5
1275	12000	11 40	0.42	13,500	32											10,000	24

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1060	10000	7.91	2.4	4,650	9.0												
1085	10250	8 31	2.6	5,560	11.0												
1115	10500	8 71	2 8	6,250	12 5	4,340	9.6										
1140	10750	9 14	3 0	6,850	14.0	5,430	12.0										
1165	11000	9 57	3 2	7,400	15 5	6,250	14 0	4,060	10.0								
1195	11250	10 00	3.5	7,900	17 5	6,920	15 5	5,420	13.0								
1215	11500	10 46	3.7	8,400	19	7,500	17.5	6,330	15.5	4,060	11.0						
1245	11750	10 92	3 9	8,880	21	8,050	19.5	7,020	17 5	5,550	15.0						
1275	12000	11 40	4 2	9,320	23	8,550	21.5	7,580	19.5	6,430	17.5	4,120	12.5				
1300	12250	11 87	4.5	9,760	25	8,990	23	8,150	21 5	7,180	19 5	5,690	16.5				
1325	12500	12.35	4.7	10,200	27	9,450	25	8,700	23 5	7,800	22	6,600	19.5	4,300	14 0		
1350	12750	12 87	5 0	10,600	29	9,940	27	9,180	26	8,390	24	7,360	22	5,920	18.5		
1370	13000	13 36	5.3			10,400	30	9,650	28	8,900	26	8,000	24	6,820	22		

Single Inlet **Single Width**

No. 9 Monogram Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
476	5000	1.98	0.43	6,360	2.65	3,260	1.60										
500	5250	2.18	0.49	6,860	3.20	4,390	2.20										
523	5500	2.39	0.56	7,350	3.75	5,180	2.75										
548	5750	2.62	0.65	7,880	4.50	5,900	3.4										
571	6000	2.85	0.73	8,350	5.0	6,540	4.0	2,950	2.20								
595	6250	3.09	0.83	8,820	5.8	7,140	4.7	4 620	3.40								
619	6500	3.31	0.93	9,280	6.6	7,740	5.5	5,590	4.25								
642	6750	3.60	1.0	9,740	7.4			6,410	5.1								
666	7000	3.88	1.2	10,200	8.3			7,080	6.0	4,050	3.95						
690	7250	4.17	1.3	10,700	9.3			7,750	7.0	5,520	5.4						
711	7500	4.45	1.4	11,100	10.5			8,360	8.0	6,460	6.5						
738	7750	4.75	1.6	11,600	11.5			8,910	9.0	7,250	7.6	3,710	4.7				
762	8000	5.07	1.7	12,000	13.0			9,550	10.5	7,950	8.8	5,690	6.8				
785	8250	5.38	1.9	12,500	14.5					8,630	10.0	6,750	8.4				
810	8500	5.71	2.1	12,900	16.0					9,250	11.5	7,590	9.7	4,180	6.3		
832	8750	6.07	2.3	13,400	17.5					9,890	13.0	8,350	11.0	6,270	8.9		
856	9000	6.41	2.5	13,800	19.0					10,500	14.5	9,050	12.5	7,380	11.0		
881	9250	6.77	2.7	14,200	20.5					11,000	15.5	9,710	14.5	8,150	12.5	5,180	8.9
905	9500	7.14	2.9	14,600	22							10,300	16.0	8,910	14.0	6,860	11.5
929	9750	7.51	3.1	15,100	24							11,000	17.5	9,620	16.0	7,920	14.0
955	10000	7.91	3.4	15,500	26							11,600	19.5	10,300	17.5	8,810	16.0
975	10250	8.31	3.6	16,000	28							12,100	21	10,900	19.5	9,590	17.5
1000	10500	8.71	3.9	16,300	31									11,600	21.5	10,300	19.5
1020	10750	9.11	4.2	16,800	33									12,200	24	11,000	21.5
1050	11000	9.57	4.5	17,200	35									12,800	26	11,600	24
1070	11250	10.00	4.8	17,700	38									13,300	28	12,200	26
1100	11500	10.46	5.2	18,100	40											12,900	29
1120	11750	10.92	5.5	18,500	43											13,500	31
1145	12000	11.40	5.8	19,000	45											14,100	34

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
955	10000	7.91	0.34	6,520	12.5												
975	10250	8.31	0.36	7,780	15.5												
1000	10500	8.71	0.39	8,750	17.0	6,070	13.5										
1020	10750	9.14	0.42	9,600	19.5	7,620	16.5										
1050	11000	9.57	0.45	10,400	22	8,780	19.5	5,690	11.0								
1070	11250	10.00	0.48	11,100	24	9,700	22.0	7,600	18.5								
1100	11500	10.46	0.52	11,800	27	10,500	24.5	8,870	22.0	5,690	15.5						
1120	11750	10.92	0.55	12,500	29	11,300	27	9,850	21.5	7,780	20.5						
1145	12000	11.40	0.58	13,100	32	12,000	30	10,600	28	9,010	21.0	5,790	17.5				
1170	12250	11.87	0.62	13,700	35	12,600	32	11,400	30	10,100	27	7,980	23.0				
1195	12500	12.35	0.66	14,300	38	13,300	35	12,200	33	11,000	31	9,250	27	6,030	19.5		
1215	12750	12.87	0.70	14,900	41	13,900	38	12,800	36	11,800	34	10,300	31	8,300	26		
1240	13000	13.36	0.74			14,500	42	13,500	39	12,500	37	11,200	34	9.550	30		

Single Inlet **Single Width**

No. 10 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
397	5000	1.98	0.54	8,140	3.40	4,160	2.0										
417	5250	2.18	0.63	8,760	4.05	5,600	2.8										
437	5500	2.39	0.72	9,400	4.8	6,630	3.5										
457	5750	2.62	0.82	10,000	5.8	7,550	4.3										
477	6000	2.85	0.94	10,700	6.4	8,350	5.1	3,770	2.85								
497	6250	3.09	1.1	11,300	7.5	9,110	6	5,910	4.35								
517	6500	3.31	1.2	11,900	8.4	9,880	7	7,150	5.4								
537	6750	3.60	1.3	12,400	9.5			8,190	6.5								
557	7000	3.88	1.5	13,000	10.5			9,050	7.7	5,180	5.1						
577	7250	4.17	1.6	13,600	12.0			9,910	8.9	7,050	6.9						
596	7500	4.45	1.8	14,200	13.5			10,700	10.0	8,250	8.3						
615	7750	4.75	2.0	14,800	15.0			11,400	11.5	9,270	9.8	4,770	6.0				
635	8000	5.07	2.2	15,400	16.5			12,200	13.5	10,200	11.5	7,260	8.7				
655	8250	5.38	2.4	15,900	18.5					11,000	13.0	8,630	10.5				
675	8500	5.71	2.7	16,400	20					11,800	14.5	9,700	12.5	5,350	8.0		
695	8750	6.07	2.9	17,100	22					12,600	16.5	10,700	14.5	8,000	11.5		
715	9000	6.41	3.2	17,600	24					13,400	18.5	11,600	16.5	9,420	14.0		
735	9250	6.77	3.4	18,200	26					14,100	20	12,400	18.5	10,400	16.0	6,630	11.5
755	9500	7.14	3.7	18,700	28							13,200	20.5	11,400	18.0	8,780	15.0
775	9750	7.51	4.0	19,300	31							14,000	22.5	12,300	20.0	10,100	17.5
795	10000	7.91	4.3	19,800	33							14,800	25	13,200	22.5	11,300	20.0
815	10250	8.31	4.7	20,400	36							15,500	27	14,000	25	12,300	22.5
835	10500	8.71	5.0	20,900	39									14,800	28	13,200	25
855	10750	9.14	5.4	21,400	42									15,600	30	14,100	28
875	11000	9.57	5.8	22,000	45									16,300	33	14,900	31
895	11250	10.00	6.2	22,600	48									17,000	36	15,700	34
915	11500	10.46	6.6	23,100	52											16,500	37
935	11750	10.92	7.0	23,600	54											17,300	40
955	12000	11.4	7.5	24,200	58											18,000	43

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch		Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.08 ozs. per sq. inch	
795	10000	7.91	4.3	8,310	16.0												
815	10250	8.31	4.7	9,950	19.5												
835	10500	8.71	5.0	11,200	22.5	7,770	17.0										
855	10750	9.14	5.4	12,300	25	9,740	21.5										
875	11000	9.57	5.8	13,200	28	11,200	25	7,270	18.0								
895	11250	10.00	6.2	14,100	31	12,400	28	9,700	23.5								
915	11500	10.46	6.6	15,000	34	13,400	31	11,300	28	7,270	20						
935	11750	10.92	7.0	15,900	37	14,400	35	12,600	31	9,950	26						
955	12000	11.40	7.5	16,700	41	15,300	38	13,600	35	11,500	31	7,400	22				
975	12250	11.87	8.0	17,500	44	16,100	42	14,600	39	12,800	35	10,200	30				
995	12500	12.35	8.5	18,300	48	17,100	45	15,600	42	14,000	39	11,800	35	7,700	25		
1015	12750	12.87	9.0	19,100	52	17,800	49	16,400	46	15,000	43	13,200	39	10,600	33		
1035	13000	13.36	9.5			18,600	52	17,300	50	15,900	47	14,300	43	12,200	39		

Double Inlet No. 0000 Monogram Fan — Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 0" Water 0.00 ozs. per sq. inch		Static Pressure 0" Water 0.00 ozs. per sq. inch		Static Pressure 0" Water 0.00 ozs. per Sq. Inch	
3180	5000	1.93	0.01	103	0.045												
3340	5250	2.12	0.01	113	0.053	53	0.032										
3500	5500	2.33	0.02	123	0.063	69	0.043										
3650	5750	2.55	0.02	132	0.073	85	0.055										
3810	6000	2.77	0.02	141	0.083	98	0.067										
3970	6250	3.01	0.02	149	0.094	109	0.079	50	0.046								
4130	6500	3.25	0.03	158	0.105	121	0.093	70	0.063								
4300	6750	3.51	0.03	167	0.120	132	0.105	87	0.081								
4450	7000	3.77	0.03	176	0.135	143	0.125	101	0.097								
4600	7250	4.05	0.04	183	0.150	153	0.140	115	0.115	58	0.072						
4770	7500	4.34	0.04	192	0.170	162	0.155	127	0.135	81	0.093						
4930	7750	4.63	0.04	200	0.190	172	0.175	130	0.155	98	0.115						

Double Inlet No. 00 Monogram Fan — Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. itch	
2310	5000	1.93	0.03	232	0.100												
2430	5250	2.12	0.03	255	0.120	121	0.072										
2540	5500	2.33	0.04	278	0.145	157	0.098										
2660	5750	2.55	0.04	298	0.165	192	0.125										
2780	6000	2.77	0.05	318	0.185	221	0.150										
2890	6250	3.01	0.05	338	0.215	247	0.180	112	0.105								
3010	6500	3.25	0.06	358	0.245	274	0.210	159	0.145								
3120	6750	3.51	0.07	378	0.275	298	0.245	198	0.185								
3240	7000	3.77	0.07	398	0.305	322	0.280	229	0.220								
3360	7250	4.05	0.08	415	0.340	345	0.315	260	0.260	130	0.165						
3470	7500	4.34	0.09	535	0.380	367	0.350	288	0.305	183	0.210						
3580	7750	4.63	0.10	454	0.425	389	0.395	314	0.350	221	0.265						
3700	8000	4.93	0.11	470	0.47			339	0.395	254	0.320	126	0.205				
3820	8250	5.25	0.12	490	0.52			364	0.445	286	0.375	184	0.275				
3930	8500	5.56	0.13	508	0.57			388	0.495	312	0.435	224	0.335				
4050	8750	5.90	0.14	525	0.63			411	0.55	342	0.49	260	0.40	135	0.265		
4170	9000	6.23	0.16	543	0.68			433	0.60	367	0.55	291	0.46	191	0.345		
4280	9250	6.60	0.17	561	0.74			456	0.67	394	0.62	322	0.53	235	0.420		
4400	9500	6.95	0.19	579	0.79			477	0.73	417	0.68	352	0.61	271	0.495	158	0.355
4510	9750	7.33	0.20	597	0.86					442	0.75	378	0.68	307	0.58	214	0.45
4630	10000	7.70	0.22	615	0.93					465	0.82	404	0.75	336	0.66	254	0.53
4750	10250	8.10	0.23	632	1.00					488	0.89	430	0.83	367	0.74	292	0.63
4860	10500	8.50	0.25	648	1.10					510	0.96	455	0.90	395	0.82	326	0.72
4980	10750	8.90	0.27	665	1.15					532	1.05	480	0.98	421	0.91	358	0.81

Double Inlet

No. 0 Monogram Fan – Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1960	5000	1.93	0.04	335	0.145												
2050	5250	2.12	0.04	367	0.175	174	0.105										
2150	5500	2.33	0.05	400	0.205	226	0.140										
2250	5750	2.55	0.06	430	0.240	276	0.180										
2350	6000	2.77	0.07	460	0.270	318	0.220										
2440	6250	3.01	0.08	487	0.305	356	0.260	162	0.150								
2540	6500	3.25	0.09	516	0.350	395	0.305	230	0.205								
2640	6750	3.51	0.10	545	0.395	430	0.350	284	0.265								
2740	7000	3.77	0.11	573	0.44	465	0.400	330	0.32								
2840	7250	4.05	0.12	598	0.49	497	0.455	374	0.38	188	0.235						
2940	7500	4.34	0.13	626	0.55	529	0.51	415	0.44	264	0.305						
3030	7750	4.63	0.14	653	0.61	560	0.57	453	0.50	318	0.385						
3130	8000	4.93	0.16	679	0.68			488	0.57	366	0.465	181	0.295				
3230	8250	5.25	0.17	706	0.75			521	0.64	412	0.54	265	0.395				
3320	8500	5.56	0.19	732	0.82			559	0.72	450	0.62	323	0.485				
3420	8750	5.90	0.21	757	0.90			592	0.80	493	0.71	375	0.58	194	0.385		
3520	9000	6.23	0.23	782	0.98			623	0.87	530	0.79	419	0.67	276	0.495		
3620	9250	6.60	0.25	809	1.05			657	0.96	568	0.89	461	0.77	339	0.61		
3720	9500	6.95	0.27	835	1.15			688	1.05	601	0.98	505	0.88	390	0.72	228	0.51
3810	9750	7.33	0.29	860	1.25					636	1.10	515	0.98	443	0.83	308	0.64
3910	10000	7.70	0.31	886	1.35					670	1.15	581	1.10	485	0.94	366	0.76
4010	10250	8.10	0.33	910	1.45					703	1.30	620	1.20	528	1.05	421	0.90
4110	10500	8.50	0.36	934	1.55					734	1.40	655	1.30	570	1.20	469	1.05
4210	10750	8.90	0.39	958	1.70					765	1.50	690	1.40	606	1.30	516	1.15
4300	11000	9.31	0.42	985	1.85					797	1.65	724	1.55	641	1.45	558	1.30
4400	11250	9.74	0.44	1,010	1.95							757	1.65	680	1.55	599	1.45
4500	11500	10.2	0.47	1,040	2.1							791	1.80	720	1.75	640	1.60

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. par sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
4010	10250	8.10	0.33	266	0.70												
4110	10500	8.50	0.36	249	0.83												
4210	10750	8.90	0.39	407	0.98	251	0.72										
4300	11000	9.31	0.42	458	1.10	335	0.91										
4400	11250	9.74	0.44	506	1.25	394	1.06	214	0.78								
4500	11500	10.2	0.47	553	1.40	453	1.25	328	0.98								
4600	11750	10.6	0.51	596	1.60	500	1.40	371	1.15	183	0.78						
4700	12000	11.1	0.54	640	1.75	550	1.61	453	1.35	325	1						

Double Inlet

No. 1 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1760	5000	1.93	0.06	476	0.210												
1840	5250	2.12	0.06	523	0.245	248	0.150										
1930	5500	2.33	0.07	570	0.295	322	0.200										
2020	5750	2.55	0.08	611	0.340	394	0.255										
2100	6000	2.77	0.10	654	0.385	454	0.310										
2190	6250	3.01	0.11	693	0.435	507	0.365	230	0.215								
2280	6500	3.25	0.12	735	0.50	562	0.43	326	0.290								
2370	6750	3.51	0.14	775	0.56	611	0.50	405	0.375								
2460	7000	3.77	0.15	815	0.63	661	0.57	470	0.45								
2550	7250	4.05	0.17	852	0.70	708	0.65	533	0.54	267	0.335						
2630	7500	4.34	0.19	892	0.78	752	0.72	591	0.62	376	0.435						
2720	7750	4.63	0.21	930	0.87	798	0.81	645	0.71	454	0.54						
2810	8000	4.93	0.23	965	0.97			695	0.81	521	0.66	258	0.42				
2900	8250	5.25	0.25	1,000	1.05			745	0.91	587	0.77	377	0.56				
2980	8500	5.56	0.27	1,040	1.15			796	1.00	640	0.89	460	0.69				
3070	8750	5.90	0.30	1,080	1.30			814	1.15	701	1.00	534	0.83	276	0.55		
3160	9000	6.23	0.32	1,110	1.40			886	1.25	754	1.10	596	0.95	393	0.71		
3250	9250	6.60	0.35	1,150	1.50			935	1.35	810	1.25	660	1.10	483	0.86		
3330	9500	6.95	0.38	1,190	1.65			980	1.5	855	1.40	720	1.25	555	1.00	324.	0.72
3420	9750	7.33	0.41	1,230	1.75					906	1.55	775	1.40	630	1.20	440	0.92
3510	10000	7.70	0.44	1,260	1.90					953	1.65	827	1.55	690	1.35	522	1.10
3600	10250	8.10	0.48	1,300	2.05					1,000	1.80	882	1.70	752	1.50	600	1.30
3690	10500	8.50	0.51	1,330	2.20					1,040	2.00	932	1.85	810	1.70	669	1.45
3780	10750	8.90	0.55	1,360	2.40					1,090	2.15	983	2.00	864	1.85	735	1.65
3860	11000	9.30	0.59	1,400	2.60					1,130	2.3	1,030	2.20	916	2.05	795	1.85
3950	11250	9.74	0.63	1,440	2.75							1,080	2.35	968	2.20	853	2.05
4040	11500	10.2	0.67	1,470	2.95							1,130	2.55	1,020	2.45	912	2.25

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
3600	10250	8.10	0.48	378	1.00												
3690	10500	8.50	0.51	496	1.20												
3780	10750	8.90	0.55	579	1.40	357	1.05										
3860	11000	9.30	0.59	651	1.60	477	1.30										
3950	11250	9.74	0.63	720	1.80	560	1.50	304	1.10								
4040	11500	10.2	0.67	787	2.00	645	1.75	467	1.40								
4150	11750	10.6	0.72	849	2.25	720	2.00	537	1.65	260	1.10						
4250	12000	11.1	0.76	910	2.5	785	2.25	645	1.95	462	1.40						

Double Inlet

No. 2 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water 5.78 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.06 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	H. P	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1000	3500	0.939	0.05	220	0.056												
1169	3750	1.08	0.06	377	1.110												
1248	4000	1.23	0.07	486	0.170												
1322	4250	1.39	0.08	577	0.250												
1402	4500	1.55	0.10	656	0.315												
1559	5000	1.92	0.13			354	0.180										
1635	5250	2.11	0.15			501	0.280										
1712	5500	2.31	0.18			616	0.395										
1790	5750	2.54	0.21			726	0.54										
1870	6000	2.76	0.23			810	0.69	303	0.24								
1948	6250	2.99	0.26			895	0.88	517	0.41								
2022	6500	3.21	0.30					656	0.58								
2100	6750	3.50	0.33					786	0.74								
2180	7000	3.75	0.37					868	0.94	433	0.44						
2260	7250	4.02	0.41					961	1.15	619	0.66						
2340	7500	4.31	0.45					1,050	1.45	754	0.88						
2417	7750	4.60	0.50					1,120	1.7	866	1.10	403	0.53				
2490	8000	4.90	0.55							973	1.35	626	0.81				
2570	8250	5.21	0.61							1,070	1.65	774	1.05				
2650	8500	5.52	0.67							1,150	1.95	891	1.35	444	0.70		
2722	8750	5.88	0.72							1,240	2.35	1,010	1.65	685	1.05		
2800	9000	6.20	0.79									1,110	1.95	829	1.35		
2880	9250	6.55	0.85									1,200	2.35	960	1.70	566	1.60
2960	9500	6.91	0.92									1,290	2.7	1,070	2.05	765	1.40
3040	9750	7.29	1.0									1,370	3.2	1,170	2.40	915	1.80
3120	10000	7.66	1.1									1,450	3.7	1,270	2.85	1,030	2.15
3195	10250	8.05	1.2											1,360	3.3	1,150	2.55
3275	10500	8.45	1.2											1,440	3.8	1,250	3.00
3350	10750	8.85	1.3											1,530	4.4	1,350	3.50
3422	11000	9.27	1.4													1,450	4.00
3503	11250	9.7	1.5													1,530	4.55
3580	11500	10.1	1.6													1,610	5.2
																1,690	5.9

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
3120	10,000	7.66	1.1	711	1.45												
3195	10,250	8.05	1.2	880	1.90												
3275	10,500	8.45	1.2	1,010	2.30	661	1.50										
3350	10,750	8.85	1.3	1,130	2.70	850	2.00										
3422	11,000	9.27	1.4	1,240	3.20	1,000	2.50	620	1.60								
3503	11,250	9.7	1.5	1,350	3.70	1,130	2.95	850	2.15								
3580	11,500	10.1	1.6	1,450	4.30	1,250	3.50	1,010	2.70	612	1.75						
3660	11,750	10.6	1.7	1,540	4.85	1,350	4.00	1,140	3.25	851	2.40						
3740	12,000	11.1	1.9	1,640	5.6	1,470	4.65	1,270	3.85	1,030	3.05	668	2.05				
3820	12,250	11.5	2.0	1,710	6.2	1,550	5.2	1,370	4.35	1,150	3.55	866	2.65				
3900	12,500	12	2.1	1,790	7	1,650	5.9	1,480	5	1,280	4.15	1,050	3.35				

Double Inlet

No. 3 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inches	
835	3500	0 939	0 06	300	0 076												
895	3750	1 08	0.08	515	0 150												
954	4000	1 23	0 09	662	0 230												
1015	4250	1 39	0 11	786	0 315												
1073	4500	1 55	0 13	894	0 47												
1193	5000	1 92	0.18			481	0 215										
1252	5250	2 11	0.21			682	0 385										
1312	5500	2 31	0.24			810	0 54										
1371	5750	2 54	0 28			990	0 74										
1431	6000	2 76	0 32			1,100	0 94	413	0 325								
1491	6250	2 99	0.36			1,220	1 2	705	0 560								
1550	6500	3.24	0 40					894	0 785								
1610	6750	3 50	0 45					1,040	1 00								
1670	7000	3 75	0 50					1,180	1 30	590	0 60						
1730	7250	4 02	0 56					1,310	1 60	842	0.90						
1790	7500	4 31	0 62					1,430	1 95	1,030	1 20						
1850	7750	4 60	0 68					1,530	2 35	1,180	1 50	548	0.72				
1910	8000	4 90	0 75							1,320	1 85	852	1.10				
1970	8250	5 21	0 83							1,450	2 25	1,050	1.45				
2030	8500	5.52	0 90							1,570	2 65	1,210	1 80	604	0.95		
2090	8750	5 88	0 98							1,690	3.2	1,370	2 25	933	1 45		
2150	9000	6 20	1 1									1,500	2 65	1,130	1 85		
2210	9250	6 55	1 2									1,640	3.2	1,310	2.30	771	1.35
2270	9500	6 91	1 3									1,750	3 7	1,450	2 80	1,010	1 90
2230	9750	7 29	1 4									1,870	4.4	1,590	3 30	1,250	2 45
2385	10000	7 66	1 5									1,970	5 0	1,730	3 85	1,400	2 90
2445	10250	8 05	1 6											1,850	4 5	1,560	3 45
2505	10500	8 45	1 7											1,970	5.1	1,700	4 05
2570	10750	8 85	1 8											2,080	6	1,840	4 75
2622	11000	9 27	1 9													1,970	5.4
2685	11250	9 7	2 1													2,080	6 2
2742	11500	10 1	2 2													2,200	7 1
2802	11750	10 6	2.4													2,300	8

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.9 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 0" Water 0.00 ozs. per sq. inch	
2385	10000	7 66	1 5	969	1 95												
2445	10250	8 05	1 6	1,197	2 55												
2505	10500	8 45	1 7	1,380	3 15	900	2 05										
2570	10750	8.85	1 8	1,530	3 70	1,160	2 70										
2622	11000	9 27	1 9	1,690	4 35	1,370	3 40	845	2 15								
2685	11250	9 70	2.1	1,830	5.1	1,540	4 05	1,160	2 95								
2742	11500	10 1	2 2	1,970	5 8	1,700	4 75	1,370	3 70	834	2 40						
2802	11750	10 6	2 4	2,100	6 6	1,840	5 4	1,550	4.45	1,160	3 25						
2862	12000	11.1	2.5	2,220	7.6	2,000	6.3	1,730	5 2	1,410	4 15	910	2 80				
2922	12250	11 5	2 7	2,320	8.5	2,110	7 1	1,860	5 9	1,570	4 85	1,180	3 60				
2980	12500	12 0	2 9	2,440	9 5	2,240	8 0	2,010	6.8	1,740	5 6	1,430	4.55	903	3 05		
3040	12750	12 5	3 0			2,350	9 3	2,160	7 7	1,900	6.5	1,610	5.4	1,240	4.1		

Double Inlet **Single Width**

No. 4 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.75 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
954	4750	1.86	1,660	0.68	513	0.245										
1000	5000	2.06	1,820	0.83	954	0.44										
1050	5250	2.27	1,970	0.98	1,220	0.61										
1100	5500	2.50	2,120	1.15	1,410	0.79										
1150	5750	2.73	2,270	1.35	1,650	0.99										
1175	5875	2.85	2,350	1.45	1,750	1.1	522	0.390								
1205	6000	2.97					1,010	0.69								
1255	6250	3.22					1,300	0.93								
1305	6500	3.49					1,550	1.20								
1355	6750	3.76					1,780	1.50	850	0.78						
1405	7000	4.04					1,980	1.75	1,270	1.15						
1455	7250	4.34							1,550	1.50						
1505	7500	4.64							1,790	1.80	810	0.95				
1555	7750	4.96							2,010	2.20	1,310	1.50				
1605	8000	5.28							2,230	2.55	1,620	1.90				
1655	8250	5.62							2,430	3	1,880	2.35	995	1.40		
1705	8500	5.96									2,110	2.80	1,460	2.00		
1755	8750	6.42									2,360	3.30	1,760	2.50		
1780	8875	6.50									2,440	3.50	1,900	2.75	895	1.45
1805	9000	6.68									2,540	3.75	2,020	3.00	1,290	2.05
1910	9500	7.45											2,480	4.05	1,950	3.20
2000	10000	8.25											2,800	5.3	2,440	4.45
2056	10250	8.67													2,660	5.1
2110	10500	9.10													2,880	5.8
2155	10750	9.53													3,080	6.5
2210	11000	9.98													3,280	7.2

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1905	9500	7.45	1,030	1.95												
1960	9750	7.85	1,580	2.85												
2000	10000	8.25	1,910	3.40	900	2.05										
2060	10250	8.67	2,190	4.20	1,540	3.10										
2110	10500	9.10	2,440	4.90	1,900	3.90										
2135	10625	9.31	2,550	5.3	2,050	4.30	1,240	2.90								
2160	10750	9.53	2,660	5.6	2,180	4.65	1,510	3.50								
2210	11000	9.98	2,890	6.4	2,450	5.4	1,900	4.35								
2235	11125	10.2	3,000	6.8	2,560	5.8	2,070	4.75	1,000	2.75						
2260	11250	10.4	3,100	7.2	2,680	6.2	2,230	5.2	1,540	3.80						
2310	11500	10.9	3,300	7.9	2,910	7.0	2,480	6.0	1,950	4.85						
2335	11625	11.2			3,010	7.4	2,610	6.5	2,120	5.35	1,250	3.55				
2360	11750	11.4			3,130	7.9	2,740	6.9	2,280	5.8	1,650	4.45				
2410	12000	11.9			3,350	8.7	2,950	7.7	2,540	6.7	2,020	5.5				
2435	12125	12.1			3,430	9.1	3,070	8.2	2,680	7.2	2,200	6.0	1,420	3.95		
2460	12250	12.4			3,520	9.6	3,180	8.7	2,800	7.7	2,340	6.5	1,720	5.0		
2510	12500	12.9			3,760	10.5	3,410	9.6	3,020	8.6	2,620	7.5	2,110	6.2		
2540	12625	13.2					3,510	10.0	3,150	9.2	2,760	8.0	2,300	6.8	1,570	5.0
2560	12750	13.4					3,600	10.5	3,260	9.6	2,880	8.5	2,470	7.5	1,860	5.9
2610	13000	13.9					3,800	11.5	3,480	10.5	3,120	9.5	2,720	8.4	2,220	7.1
2710	13500	15.0							3,870	13	3,580	12.0	3,200	10.5	2,820	9.4

Double Inlet

No. 5 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water 0.578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
844	4750	1.86	2,010	0.83	621	0.295										
888	5000	2.06	2,200	1.00	1,160	0.535										
933	5250	2.27	2,390	1.20	1,470	0.74										
977	5500	2.50	2,570	1.40	1,740	0.95										
1021	5750	2.73	2,750	1.65	2,000	1.20										
1045	5875	2.85	2,850	1.75	2,120	1.3	630	0.475								
1065	6000	2.97					1,220	0.83								
1110	6250	3.22					1,570	1.15								
1155	6500	3.49					1,880	1.45								
1200	6750	3.76					2,160	1.80	1,030	0.95						
1245	7000	4.01					2,400	2.15	1,540	1.40						
1290	7250	4.31							1,870	1.80						
1330	7500	4.64							2,170	2.20	980	1.15				
1375	7750	4.96							2,430	2.65	1,580	1.80				
1421	8000	5.28							2,700	3.10	1,960	2.30				
1465	8250	5.62									2,280	2.80	1,200	1.65		
1510	8500	5.96									2,550	3.35	1,760	2.40		
1555	8750	6.42									2,860	4.00	2,130	3.00		
1575	8875	6.50									2,960	4.25	2,300	3.35	1,080	1.75
1600	9000	6.68									3,070	4.5	2,440	3.6	1,560	2.45
1680	9500	7.45											3,000	4.9	2,360	3.9
1770	10000	8.25											3,500	6.4	2,960	5.4
1820	10250	8.67													3,220	6.2
1860	10500	9.10													3,480	7.0
1910	10750	9.53													3,730	7.8
1950	11000	9.95													3,970	8.7

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1680	9500	7.45	1,240	2.35												
1730	9750	7.85	1,910	3.45												
1770	10000	8.25	2,310	4.15	1,090	2.45										
1820	10250	8.67	2,640	5.1	1,870	3.80										
1860	10500	9.10	2,950	5.9	2,300	4.75										
1885	10625	9.31	3,080	6.3	2,480	5.2	1,510	3.50								
1910	10750	9.53	3,230	6.8	2,640	5.6	1,830	4.2								
1950	11000	9.98	3,500	7.7	2,960	6.5	2,300	5.3								
1975	11125	10.2	3,630	8.2	3,110	7.0	2,510	5.8	1,210	3.35						
2000	11250	10.4	3,760	8.7	3,250	7.5	2,700	6.3	1,860	4.65						
2040	11500	10.9	4,000	9.6	3,520	8.5	3,010	7.3	2,360	5.9						
2060	11625	11.2			3,640	8.9	3,170	7.9	2,560	6.5	1,520	4.3				
2085	11750	11.4			3,790	9.5	3,310	8.4	2,700	7.1	1,990	5.4				
2130	12000	11.9			4,050	10.5	3,570	9.4	3,080	8.1	2,450	6.6				
2150	12125	12.1			4,150	11.0	3,720	9.9	3,240	8.7	2,660	7.3	1,720	4.80		
2175	12250	12.4			4,270	11.5	3,860	10.5	3,390	9.3	2,830	7.9	2,080	6.1		
2220	12500	12.9			4,550	13.0	4,130	11.5	3,650	10.5	3,170	9.1	2,550	7.5		
2245	12625	13.2					4,250	12.0	3,810	11.0	3,340	9.8	2,780	8.3	1,900	6.10
2265	12750	13.4					4,360	13.0	3,940	11.5	3,480	10.0	2,990	9.0	2,250	7.1
2310	13000	13.9					4,610	14.0	4,200	13.0	3,770	11.5	3,290	10.0	2,690	8.6
2390	13500	15.0							4,680	15.5	4,340	14.5	3,880	13.0	3,420	11.5

Double Inlet

No. 6 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water 0.578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
698	4750	1.86	2,670	1.10	825	0.39										
735	5000	2.06	2,930	1.35	1,540	0.71										
770	5250	2.27	3,180	1.60	1,960	0.98										
806	5500	2.50	3,420	1.90	2,310	1.25										
845	5750	2.73	3,660	2.20	2,650	1.60										
861	5875	2.85	3,780	2.35	2,810	1.75	841	0.63								
880	6000	2.97					1,630	1.10								
917	6250	3.22					2,090	1.50								
954	6500	3.49					2,500	1.95								
990	6750	3.76					2,870	2.40	1,370	1.25						
1030	7000	4.04					3,200	2.85	2,050	1.85						
1065	7250	4.31							2,490	2.40						
1100	7500	4.64							2,890	2.95	1,310	1.55				
1140	7750	4.96							3,240	3.50	2,100	2.40				
1175	8000	5.28							3,600	4.10	2,610	3.10				
1210	8250	5.62									3,030	3.75	1,600	2.20		
1250	8500	5.96									3,930	4.45	2,340	3.20		
1285	8750	6.42									3,800	5.3	2,830	4.00		
1305	8875	6.50									3,930	5.6	3,060	4.45	1,440	2.35
1320	9000	6.68									4,080	6.0	3,250	4.8	2,070	3.30
1390	9500	7.45											3,990	6.5	3,130	5.2
1470	10000	8.25											4,060	8.5	3,930	7.2
1505	10250	8.67													4,280	8.2
1540	10500	9.10													4,640	9.3
1575	10750	9.53													4,960	10.5
1610	11000	9.98													5,280	11.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1390	9500	7.45	1,650	3.1												
1430	9750	7.85	2,540	4.6												
1470	10000	8.25	3,070	5.5	1,450	3.25										
1505	10250	8.67	3,500	6.8	2,480	5.1										
1540	10500	9.10	3,930	7.9	3,060	6.3										
1560	10625	9.31	4,100	8.4	3,300	6.9	2,000	4.65								
1575	10750	9.53	4,280	9.0	3,500	7.5	2,430	5.6								
1610	11000	9.98	4,650	10.0	3,950	8.7	3,060	7.0								
1630	11125	10.2	4,830	11.0	4,130	9.3	3,340	7.6	1,610	4.45						
1650	11250	10.4	5,000	11.5	4,330	10.0	3,590	8.4	2,480	6.2						
1690	11500	10.9	5,320	12.5	4,680	11.0	4,000	9.7	3,120	7.8						
1705	11625	11.2			4,850	12.0	4,220	10.5	3,410	8.6	2,020	5.7				
1725	11750	11.4			5,050	12.5	4,410	11.0	3,660	9.4	2,660	7.2				
1760	12000	11.9			5,380	14.0	4,750	12.5	4,090	11.0	3,250	8.8				
1780	12125	12.1			5,520	14.5	4,940	13.0	4,300	11.5	3,540	9.7	2,200	6.4		
1800	12250	12.4			5,680	15.5	5,130	14.0	4,500	12.5	3,770	10.5	2,760	8.1		
1835	12500	12.9			6,060	17	5,500	15.5	4,850	14.0	4,220	12.0	3,390	10.0		
1855	12625	13.2					5,650	16.5	5,070	15.0	4,140	13.0	3,700	11.0	2,530	8.1
1870	12750	13.4					5,800	17	5,250	15.5	4,640	13.5	3,970	12.0	3,000	9.4
1910	13000	13.9					6,130	19	5,600	17.0	5,010	15.5	4,370	13.5	3,580	11.5
1980	13500	15.0							6,250	20.5	5,760	19.0	5,170	17	4,540	15.0

Double Inlet

No. 7 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
590	4750	1 86	4,840	2 00	1,500	0 71										
621	5000	2 06	5,320	2 40	2,790	1 3										
652	5250	2 27	5,760	2 90	3,550	1 8										
683	5500	2 50	6,200	3 40	4,190	2 3										
713	5750	2 73	6,630	3 95	4,810	2 9										
730	5875	2 85	6,860	4 2	5,100	3.2	1,520	1 15								
745	6000	2 97					2,950	2 00								
775	6250	3 22					3,800	2 70								
807	6500	3 49					4,530	3.50								
838	6750	3 76					5,200	4 30	2,480	2 30						
870	7000	4 04					5,800	5 2	3,710	3 40						
900	7250	4 34							4,530	4 35						
930	7500	4 64							5,240	5 3	2,370	2 80				
960	7750	4 96							5,870	6 4	3,810	4 35				
992	8000	5 28							6,530	7 5	4,730	5 6				
1022	8250	5 62									5,500	6 8	2,910	4 0		
1055	8500	5 96									6,150	8 1	4,250	5 8		
1085	8750	6 42									6,880	9 6	5,130	7.3		
1100	8875	6 50									7,120	10 0	5,550	8 1	2,620	4.3
1115	9000	6 68									7,420	11 0	5,890	8 7	3,760	6 0
1180	9500	7 45											7,240	12.0	5,680	9.4
1240	10000	8 25											8,450	15.5	7,130	13
1275	10250	8.67													7,780	15
1305	10500	9 10													8,420	17
1335	10750	9 53													9,000	19
1370	11000	9 98													9,550	21

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1180	9500	7.45	3,000	5 7												
1210	9750	7.85	4,610	8 4												
1240	10000	8 25	5,580	10 0	2,630	5 9										
1275	10250	8.67	6,370	12 5	4,500	9.1										
1305	10500	9.10	7,130	14 5	5,550	11 5										
1320	10625	9 31	7,150	15 5	6,000	12.5	3,630	8.4								
1335	10750	9.53	7,800	16.5	6,360	13.5	4,410	10.0								
1370	11000	9.98	8,140	18.5	7,150	16 0	5,560	12 5								
1385	11125	10 2	8,750	19.5	7,500	17.0	6,060	14.0	2,930	8.1						
1400	11250	10 4	9,070	21	7,840	18.0	6,520	15.0	4,500	11.0						
1430	11500	10.9	9,650	23	8,500	20.5	7,270	17.5	5,680	14.0						
1445	11625	11 2			8,780	21.5	7,650	19.0	6,180	15.5	3,670	10 5				
1460	11750	11.4			9,150	23	8,000	20.0	6,640	17.0	4,810	13.0				
1490	12000	11 9			9,750	24	8,640	22.5	7,430	19.5	5,890	16.0				
1510	12125	12.1			10,000	27	8,970	24	7,810	21.0	6,420	17.5	4,150	11.5		
1520	12250	12 4			10,300	28	9,320	25	8,180	22.5	6,840	19.0	5,020	14.5		
1550	12500	12 9			11,000	31	9,970	28	8,810	25	7,640	22.0	6,150	18 0		
1570	12625	13 2					10,300	30	9,200	27	8,040	23.5	6,700	20.0	4,580	14.5
1585	12750	13 4					10,500	31	9,510	28	8,410	24.5	7,200	22.0	5,440	17.0
1612	13000	13.9					11,100	34	10,200	31	9,100	28	7,930	24.5	6,500	20.5
1675	13500	15.0							11,300	38	10,500	35	9,350	31	8,250	28

Double Inlet **Single Width**

No. 8 Monogram Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
503	4750	1 86	6,480	2 70	2,020	0 96										
529	5000	2 06	7,150	3.25	3,750	1 75										
556	5250	2 27	7,750	3 85	4,780	2.40										
583	5500	2 50	8,350	4 6	5,650	3 10										
609	5750	2 73	8,910	5 3	6,490	3.90										
622	5875	2 85	9,250	5.7	6,880	4.3	2,050	1 55								
635	6000	2 97					3,970	2 70								
663	6250	3 22					5,110	3 65								
688	6500	3 49					6,100	4.7								
714	6750	3 76					7,000	5 8	3,350	3 05						
741	7000	4 04					7,800	6 9	5,000	4 55						
767	7250	4 34							6,100	5 9						
795	7500	4 64							7,050	7 2	3,180	3 75				
820	7750	4 96							7,900	8 6	5,130	5.9				
848	8000	5.28							8,780	10	6,380	7.5				
875	8250	5.62									7,400	9 2	3,920	5 4		
900	8500	5.96									8,300	11 0	5,720	7.8		
927	8750	6.42									9,280	13.0	6,910	9.8		
940	8875	6 50									9,600	13 5	7,460	11 0	3,520	5 7
955	9000	6.68									10,000	14 5	7,040	11 5	5,070	8.0
1005	9500	7.45											9,730	16.0	7,650	12.5
1060	10000	8.25											11,400	20 5	9,600	17.5
1085	10250	8.67													10,500	20
1115	10500	9 10													11,300	23
1140	10750	9 53													12,100	25
1165	11000	9.98													12,900	28

R.P.M	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volnme C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1005	9500	7.45	4,040	7.6												
1035	9750	7.85	6,210	11.0												
1060	10000	8.25	7,500	13.5	3,540	8.0										
1085	10250	8.67	8,570	16.5	6,050	12.5										
1115	10500	9.10	9,600	19.5	7,460	15.5										
1125	10625	9.31	10,000	20.5	8,080	17.0	4,880	11 5								
1140	10750	9.53	10,500	22	8,570	18.0	5,930	13 5								
1165	11000	9.98	11,400	25	9,620	21 0	7,470	17 0								
1180	11125	10.2	11,800	26	10,100	23 0	8,150	18 5	3,940	11						
1195*	11250	10.4	12,200	28	10,600	24.5	8,750	20 5	6,060	15						
1215	11500	10.9	13,000	31	11,500	27	9,780	24	7,650	19						
1235	11625	11.2			11,800	29	10,300	26	8,320	21	4,940	14.0				
1245	11750	11.4			12,300	31	10,800	27	8,930	23	6,480	17.5				
1275	12000	11.9			13,100	34	11,600	30	10,000	26	7,940	21.5				
1285	12125	12.1			13,500	36	12,100	32	10,500	28	8,630	23 5	5,600	15.5		
1300	12250	12 4			13,900	38	12,600	34	11,000	30	9,200	26	6,760	20 0		
1325	12500	12 9			14,800	42	13,400	38	11,900	34	10,300	30	8,280	24.5		
1340	12625	13.2					13,800	40	12,400	36	10,800	32	9,030	27	6,170	20
1350	12750	13.4					14,200	42	12,800	38	11,300	33	9,700	29	7,300	23
1370	13000	13.9					15,000	46	13,700	42	12,300	38	10,700	33	8,750	28
1430	13500	15							15,200	50	14,100	47	12,600	42	11,100	37

Double Inlet

No. 9 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
453	4750	1.86	8,840	3 65	2,740	1 30										
476	5000	2 06	9,700	4 35	5,000	2 35										
500	5250	2 27	10,500	5 2	6,480	3 25										
523	5500	2 50	11,300	6 2	7,650	4 2										
548	5750	2 73	12,100	7 2	8,780	5 3										
559	5875	2 85	12,500	7 7	9,320	5 8	2,790	2 10								
571	6000	2 97					5,380	3 65								
595	6250	3 22					6,920	5 0								
619	6500	3 49					8,280	6 4								
642	6750	3 76					9,500	7 9	2,380	4 15						
666	7000	4 01					10,600	9 4	6,780	6 2						
690	7250	4 31							8,260	8 0						
714	7500	4 61							9,550	9 7	4,320	5 1				
738	7750	4 96							10,700	11 5	6,950	7 9				
762	8000	5 28							11,900	13 5	8,650	10 0				
785	8250	5 62									10,000	12 5	5,300	7 35		
810	8500	5 96									11,200	15 0	7,750	10.5		
832	8750	6 42									12,600	17 5	9,350	13 0		
845	8875	6 50									13,000	18.5	10,100	14 5	4,780	7 8
856	9000	6 68									13,500	20	10,700	16.0	6,850	11 0
905	9500	7 45											13,200	21 5	10,400	17
955	10000	8 25											15,400	28	13,000	24
975	10250	8 67													14,200	28
1000	10500	9 10													15,400	31
1020	10750	9 53													16,500	35
1050	11000	9.98													17,500	39

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
905	9500	7 45	5,480	10 5												
930	9750	7 85	8,420	15 0												
955	10000	8 25	10,200	18 5	4,800	11 0										
975	10250	8 67	11,600	22.5	8,200	16 5										
1000	10500	9 10	13,000	26	10,100	21										
1015	10625	9 31	13,600	28	11,000	23	6,620	15 5								
1020	10750	9 53	14,200	30	11,600	25	8,040	18 5								
1050	11000	9 98	15,400	34	13,000	29	10,100	23								
1060	11125	10 2	16,000	36	13,700	31	11,000	25	5,350	14 5						
1070	11250	10 4	16,600	38	14,300	33	11,900	28	8,200	20.5						
1100	11500	10 9	17,600	42	15,500	37	13,300	32	10,400	26						
1110	11625	11 2			16,100	39	14,000	35	11,300	28	6,680	19				
1120	11750	11 4			16,700	42	14,600	37	12,100	31	8,780	24				
1145	12000	11 9			17,800	46	15,800	41	13,500	36	10,800	29				
1155	12125	12 1			18,300	49	16,400	44	14,300	38	11,700	32	7,590	21		
1170	12250	12 4			18,800	52	17,000	46	14,900	41	12,500	35	9,170	27		
1195	12500	12 9			20,100	58	18,200	52	16,100	46	14,000	40	11,200	33		
1205	12625	13 2					18,700	54	16,800	49	14,700	43	12,200	36	8,360	27 0
1215	12750	13 4					19,200	56	17,400	52	15,400	45	13,200	40	9,900	31
1240	13000	13.9					20,300	62	18,500	56	16,600	52	14,500	45	11,900	38
1285	13500	15.0							20,600	68	19,100	64	17,100	56	15,000	50

Double Inlet

No. 10 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

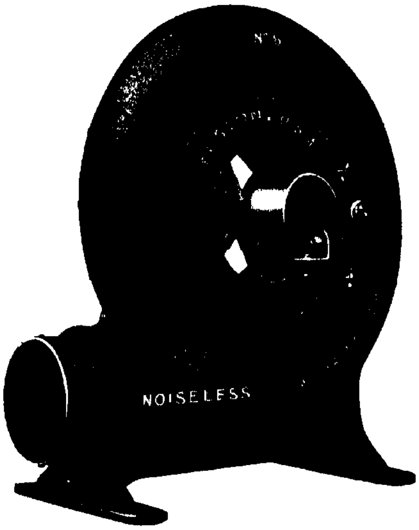
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 1" Water .578 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 2" Water 1.16 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 3" Water 1.73 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 4" Water 2.31 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 5" Water 2.89 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 6" Water 3.47 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 7" Water 4.05 ozs. per sq. inch Volume C.F.M.	H. P.
378	4750	1.86	11,300	4.65	3,500	1.65										
397	5000	2.06	12,400	5.7	6,500	3.00										
417	5250	2.27	13,500	6.7	8,300	4.15										
437	5500	2.50	14,500	8.0	9,800	5.4										
457	5750	2.73	15,500	9.2	11,200	6.8										
467	5875	2.85	16,000	9.9	11,900	7.4	3,560	2.7								
477	6000	2.97					6,880	4.7								
497	6250	3.22					8,850	6.4								
517	6500	3.49					10,600	8.2								
537	6750	3.76					12,100	10.0	3,040	5.1						
557	7000	4.01					13,500	12	8,650	7.9						
577	7250	4.34							10,600	10.0						
596	7500	4.64							12,200	12.5	5,530	6.5				
615	7750	4.96							13,700	15.0	8,900	10.0				
635	8000	5.28							15,200	17.5	11,000	13.0				
655	8250	5.62									12,900	16.0	6,790	9.4		
675	8500	5.96									11,400	19.0	9,920	13.5		
695	8750	6.42									16,100	22.5	12,000	17		
705	8875	6.50									16,700	24	13,000	19	611	10
715	9000	6.68									17,300	25	13,800	20	8,790	14
755	9500	7.45											16,900	28	13,300	22
795	10000	8.25											19,700	36	16,700	30
815	10250	8.67													18,200	35
835	10500	9.10													19,700	39
855	10750	9.53													21,000	44
875	11000	9.98													22,400	49

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 8" Water 4.63 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 9" Water 5.2 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 10" Water 5.78 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 11" Water 6.36 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 12" Water 6.93 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 13" Water 7.51 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 14" Water 8.08 ozs. per sq. inch Volume C.F.M.	H.P.
755	9500	7.45	7,000	13.0												
775	9750	7.85	10,800	19.5												
795	10000	8.25	13,000	23.5	6,140	11.0										
815	10250	8.67	14,900	29	10,500	21.5										
835	10500	9.10	16,700	31	13,000	27										
845	10625	9.31	17,400	36	14,000	29	8,480	19.5								
855	10750	9.53	18,200	38	14,900	32	10,300	23.5								
875	11000	9.98	19,700	43	16,700	37	13,000	30								
885	11125	10.2	20,500	46	17,500	39	14,100	32	6,840	19						
895	11250	10.4	21,200	49	18,300	42	15,200	36	10,500	26						
915	11500	10.9	22,500	51	19,800	48	17,000	41	13,300	33						
925	11625	11.2			20,500	50	17,900	44	14,500	36	8,560	24				
935	11750	11.4			21,400	54	18,700	47	15,500	40	11,300	30				
955	12000	11.9			22,800	60	20,100	52	17,300	46	13,800	37				
965	12125	12.1			23,400	62	21,000	56	18,300	49	15,000	41	9,700	27		
975	12250	12.4			24,100	66	21,700	60	19,100	52	16,000	44	11,700	34		
995	12500	12.9			25,600	74	23,300	66	20,600	58	17,900	52	11,400	42		
1005	12625	13.2					23,900	70	21,500	62	18,800	56	15,700	47	10,700	34
1015	12750	13.4					24,500	72	22,200	66	19,700	58	16,800	50	12,700	40
1035	13000	13.9					26,000	80	23,700	72	21,200	66	18,600	58	15,200	48
1070	13500	15.0							26,400	88	24,400	80	21,900	72	19,300	64

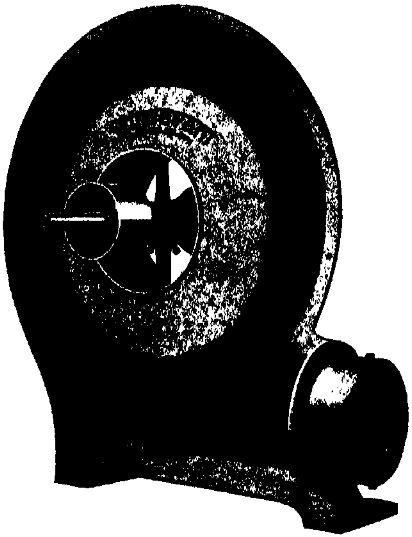
STEEL PRESSURE BLOWERS
Design 2

Dimensions, Capacities, Horse Powers

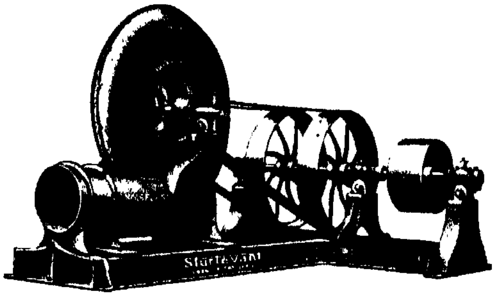
Steel Pressure Blowers—Design 2



Steel Pressure Blower—Design 2.
Right Hand Bottom Horizontal Discharge



Steel Pressure Blower with Side
Removed showing Wheel.



Steel Pressure Blower on Adjustable Bed,
with Combined Countershaft.

STEEL PRESSURE BLOWER—DESIGN 2

SPECIFICATIONS

General. There shall be furnished a number........Design No. 2. Sturtevant Steel Pressure Blower which shall be made double inlet, single width.......hand.......discharge and to have full housing. Fan shall be supplied with outlet......inches diameter. Total height of fan housing shall be approximately......inches, width of fan in the direction of the shaft approximately ....inches, length traverse to the shaft approximately ....inches. Fan shall have capacity of...... cubic feet of free air per minute against a resistance of.....inches of water at the fan outlet, when air is supplied freely to the inlet. Fan shall operate at approximately........R. P. M. requiring approximately.... H. P.

Housing. Housing shall be of spiral form constructed of cast iron made in two halves, flanged and securely bolted together. These shall be split and planed at right angles to the shaft. Fan shall be supported by heavy cast-iron feet cast integral with fan casing. Fan casing shall be supplied with bearing brackets cast integral with the casing, excepting in the No. 10 size in which bearing brackets may be bolted on.

Bearings. Bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication; shall be large diameter and extra long to give ample bearing support; shall be lined with best quality babbitt containing upwards of 85 per cent. tin, bored and scraped to the exact size.

Shaft. Shaft shall be made of steel forging carefully turned, and after keyways are cut shall be accurately ground and polished.

Wheels. Blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates each of which shall also be made of refined steel plate, in one piece. Hub shall be made of cast composition for sizes No. 0000; and of malleable iron for sizes No. 00 to No. 5.

On sizes No. 6 to No. 10, hub shall be made of cast iron having cast integral with it and radiating from it steel arms with T section. Hub shall be accurately bored and fitted to shaft; to the outer end of the arms, steel blades shall be securely riveted. Wheels shall be carefully balanced.

Steel Pressure Blower — Design 2

APPROXIMATE WEIGHTS

Size	Blower	Blower on Adjustable Bed	Blower on Adjustable Bed with Countershaft
0000	17		
00	35		
0	55		
1	85		
2	110		
3	155		
4	300	350	700
5	375	500	1100
6	575	650	1475
7	840	1000	2200
8	1125	1375	3300
9	1650	2200	4400
10	2650	2850	6000

Steel Pressure Blower—Design 2

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

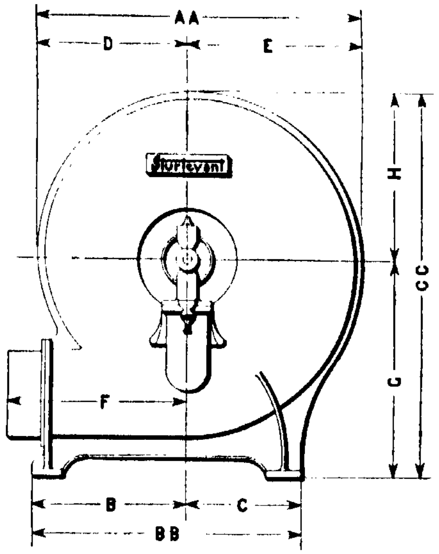
Double Inlet

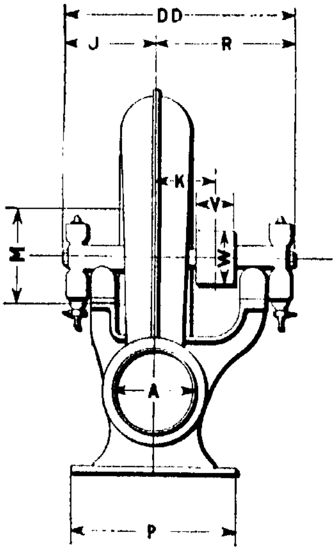
Steel Pressure Blower—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter in Bearing	Anchor Bolts
0000	2¾	6 3/16	3¼	4¼	5½	7 1/16	6¾	5⅛	4⅛	2 5/16	3¼	5¼	5⅝	1⅛	1⅞	10¼	9 7/16	11⅞	9¾	7 1/16	⅜	¼
00	3½	6 9/16	4⅞	6¼	7¼	7⅝	8⅝	6¾	5¼	2⅞	4½	9	7½	1⅞	2⅝	13½	11 7/16	15⅝	12¼	9⅛	9/16	¼
0	4	7 9/16	5⅞	7¼	8¼	8 13/16	10⅛	7¾	5 11/16	3½	5¼	9 7/16	8 11/16	2⅛	3	15½	13 7/16	17⅞	14⅛	10¾	11/16	¼
1	4⅞	8⅞	6¾	8⅜	9⅝	10¼	11¾	9	6⅝	4⅛	6	10⅞	9⅞	2½	3½	18	15⅝	20¼	16½	12¼	¾	⅜
2	5⅜	10⅛	7	9⅞	11⅛	11 13/16	13½	10½	7⅛	4½	7	13	10¾	2⅝	3⅞	21	17⅛	24	17⅞	14 9/16	13/16	½
3	6¼	12¼	8½	11⅛	12⅞	14	15¾	12⅛	8 11/16	5⅛	8½	15⅛	12 7/16	3	4½	24¼	20¾	27⅞	21⅛	17	15/16	½
4	7⅞	14½	9¾	13½	15	16½	18¾	14¼	8¾	5⅝	9¾	16	13⅛	4	6	28½	24¼	33	21⅞	19½	1	⅝
5	8⅞	16⅞	12	15⅞	18⅛	19¼	22	17	10	8 3/16	10⅜	18	19	4½	7¼	34	28⅜	39	29	22¾	1⅛	⅝
6	10¼	18¾	13	18½	20¾	22¼	25⅞	19⅝	11¼	9½	12½	19½	21⅛	5¼	7⅞	39¼	31¾	45	32⅜	26	1 5/16	⅝
7	12	22	17½	21½	24¼	26	29⅛	22⅞	12 9/16	10⅜	15	24	23 5/16	6½	9⅛	45¾	39½	52	35⅞	30¾	1½	¾
8	13⅞	25¾	19¼	24½	27½	30¼	33⅛	26	14¼	11¾	17¾	26¼	26⅝	8½	10⅛	52	45	59⅛	41⅜	36	1 11/16	¾
9	16	29⅞	23⅝	28½	32	34½	39½	30¼	16⅝	14 1/16	20¼	32¾	29⅝	10½	12⅞	60½	53½	69¾	46¼	40	1 15/16	⅞
10	18⅝	34½	25⅝	32¾	37	39¼	45½	35¼	22⅜	21	24	36	39⅞	15	16	69¾	60⅛	80⅞	62½	48	2 7/16	1

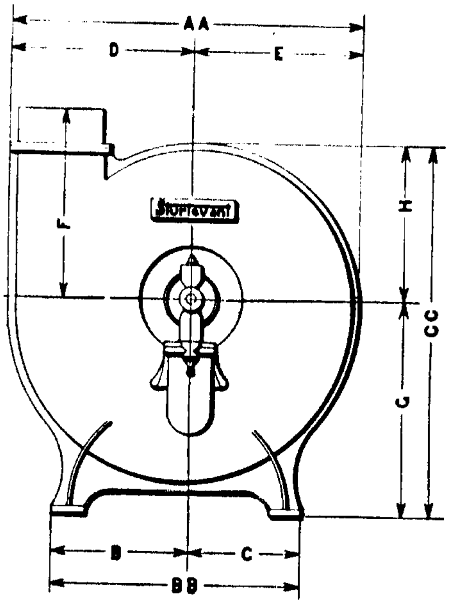
Double Inlet.

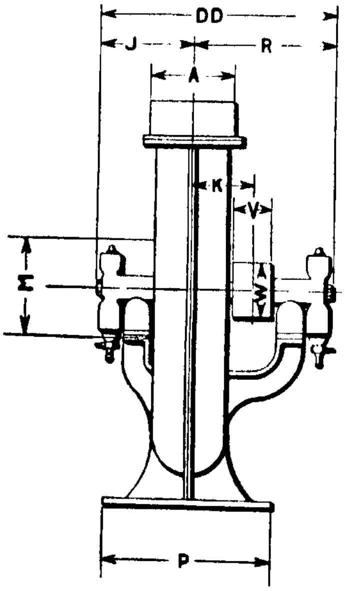
Steel Pressure Blower—Design 2

Single Width

Full Housing

Up Blast Discharge





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Anchor Bolts	Shaft Diameter
0000	2¾	4¼	4¼	5⅞	5⅛	7 1/16	6½	4¼	4⅜	2 3/16	3½	5⅜	5⅜	1⅞	1⅞	11	9	11¼	9¾	7 1/16	¼	⅜
00	3½	5¼	5 9/16	7¾	6¾	7⅝	8 5/16	6½	5¼	2⅞	4½	8⅞	7½	1⅞	2⅜	14½	11 5/16	14 9/16	12¾	9⅛	¼	9/16
0	4	6 13/16	6 1/16	8¾	7¾	8 13/16	9½	7¼	5 11/16	3½	5¼	9½	8 11/16	2⅛	3	16½	13	16¾	14 3/16	10¾	¼	11/16
1	4⅞	8 1/16	7⅛	10¼	6	10¼	11	8⅜	6⅝	4⅛	6	11	9⅞	2½	3½	19¼	15 3/16	19⅜	16½	12¼	⅜	¾
2	5⅝	9	8	11¾	10½	11 15/16	12¾	9⅞	7⅛	4½	7	13⅛	10¾	2⅝	3⅞	22¼	17	22⅝	17⅛	14 9/16	½	13/16
3	6¼	9⅞	8⅞	13⅝	12⅛	14	15	11⅛	8 11/16	5⅜	8¼	15⅜	12 1/16	3	4½	25¾	18¾	26⅛	21⅛	17	½	15/16
4	7⅜	12	9 13/16	15¾	14¼	16½	17 1/16	13½	8¾	5⅝	9¾	16 1/16	13⅛	4	6	30	21 15/16	30 9/16	21⅞	19½	⅝	1
5	8⅞	14	11½	19¼	17	19¼	17	15⅞	10	8 5/16	10⅝	17¾	19	4½	7¼	36¼	25½	37 7/16	29	22¾	⅝	1⅛
6	10¼	17	12⅝	21⅞	19⅝	22¼	24⅜	18½	11¼	9½	12½	19½	21⅛	5¼	7⅞	41½	29⅝	43	32⅝	26	⅝	1 5/16
7	12	18½	18⅛	25⅝	22⅞	26	25¼	21½	12 5/16	10⅜	15	24	23 5/16	6½	9⅝	48½	36⅝	46¾	35⅞	30¼	¾	1½
8	13⅞	20	19	29	26	30¼	31¼	24½	14¾	11¾	17¼	26½	26⅜	8½	10⅛	55	39	55¾	41⅝	36	¾	1 11/16
9	16	25¾	23⅛	33¾	30¼	34⅜	33¾	28½	16⅝	14 1/16	20¼	32½	29⅝	10½	12⅝	64	49¼	62¼	46¼	40	⅞	1 15/16
10	18⅝	27¼	27¼	39¼	35¼	39⅜	43	32¾	22⅝	21	24	36	39⅞	15	16	74½	54½	75¾	62½	48	1	2 7/16

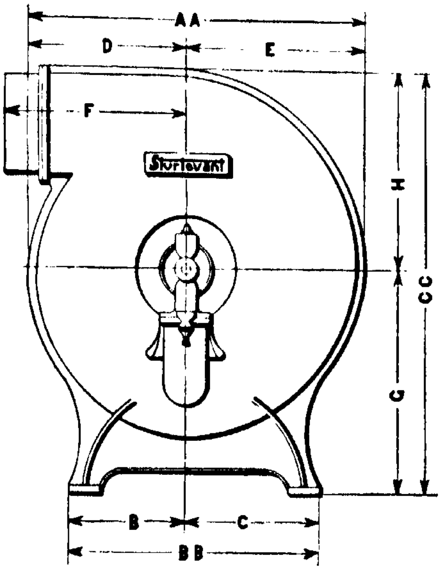
Double Inlet

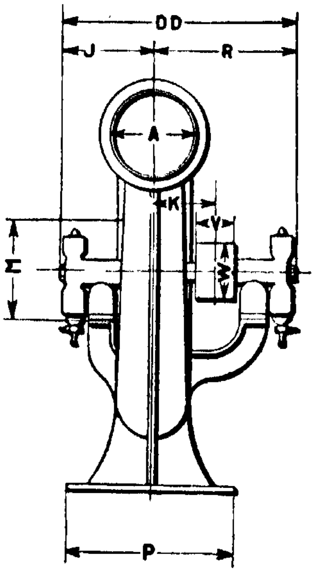
Steel Pressure Blower—Design 2

Single Width

Full Housing

Top Horizontal Discharge





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter in Bearing	Anchor Bolts
0000	2¾	3 3/16	4 3/16	4¾	5½	7 1/16	5¾	5⅝	4⅜	2 5/16	3¼	5 5/16	5⅝	1⅜	1⅞	12 5/16	7⅜	11⅝	9¼	7 5/16	⅝	½
00	3½	5 5/16	5 13/16	6¼	7¼	7⅝	7¾	7¾	5¼	2⅞	4⅜	9⅝	7⅜	1⅞	2⅝	14⅞	11⅛	15⅜	12¼	9⅜	9/16	½
0	4	5 15/16	6⅞	7½	8¼	8 15/16	9	8¾	5 11/16	3⅜	5½	9 7/16	8 11/16	2⅛	3	17 5/16	12 11/16	17¾	14⅝	10⅝	11/16	½
1	4⅞	7½	7¼	8⅝	9⅝	10¼	10 3/16	10¼	6⅜	4⅛	6	10 15/16	9¼	2⅜	3⅜	19⅞	14⅜	20 7/16	16⅜	12½	¾	⅝
2	5⅝	7⅞	9	9⅞	11⅛	11 11/16	12	11¾	7⅛	4⅜	7	13⅛	10¾	2⅝	3⅞	22 11/16	16⅞	23¾	17⅞	14 5/16	13/16	⅝
3	6½	8 13/16	10	11⅝	12⅞	14	14	13⅝	8 11/16	5⅛	8½	15 5/16	12 7/16	3	4⅜	26⅞	18 11/16	27⅝	21⅛	17	15/16	⅝
4	7⅝	10⅛	12 7/16	13⅜	15	16⅜	15 7/16	15¾	8¼	5⅝	9¾	16	13⅛	4	6	31⅜	22 5/16	31 5/16	21⅞	19⅜	1	⅝
5	8⅞	11 13/16	14 5/16	15⅞	18⅛	19⅜	19	19½	10	8 5/16	10⅝	18	19	4⅜	7½	37⅝	26	38¼	29	22¼	1⅛	⅝
6	10½	16⅛	16	18⅜	20¾	22¼	23⅝	21⅛	11¼	9⅜	12⅜	19⅜	21⅛	5½	7⅞	43	32⅛	44⅜	32⅝	26	1 3/16	⅝
7	12	17¼	18⅞	21⅜	24½	26	24⅝	25⅝	12 5/16	10⅝	15	24	23 5/16	6⅜	9⅛	50¼	36⅝	50	35¾	30⅞	1⅜	¾
8	13⅞	18¼	20	24⅜	27⅜	30¼	29	29	14¾	11⅝	17¼	26¼	26⅝	8⅜	10⅛	57¼	38¾	58	41⅝	36	1 11/16	¾
9	16	23⅞	26	28⅜	32	34⅜	32¾	33¾	16⅝	14 5/16	20¾	32¾	29⅝	10⅜	12⅝	66⅜	49⅞	66⅜	46¼	40	1 15/16	⅞
10	18⅝	27	30⅛	32¾	37	39½	40	39½	22¾	21	24	36	39⅞	15	16	76¼	57⅛	79¼	62½	48	2 3/16	1

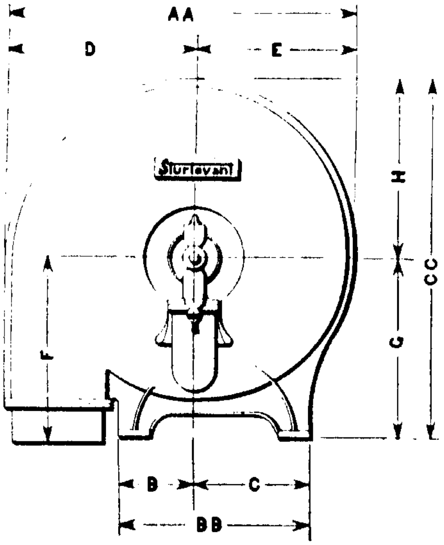
Double Inlet

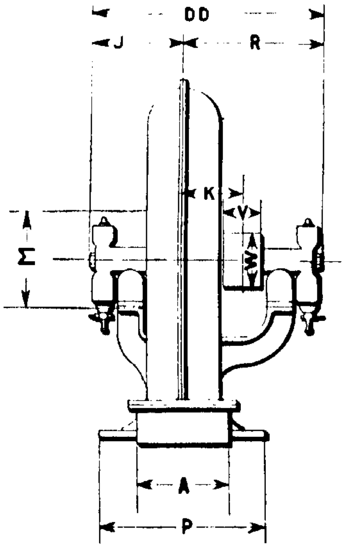
Steel Pressure Blower—Design 2

Single Width

Full Housing

Down Blast Discharge





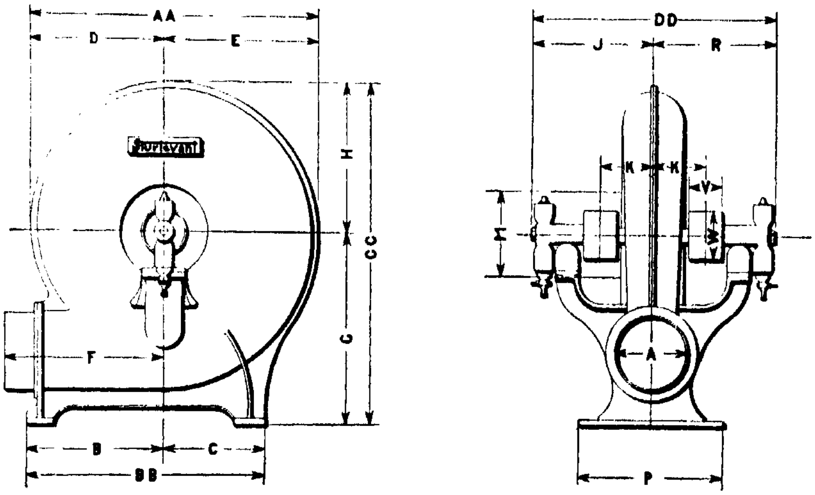
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
0000	2¼	3 13/16	3 13/16	5⅞	5⅛	7 1/16	5⅜	5½	4⅛	2 5/16	3¼	5¼	5⅝	1⅜	1⅞	11	7⅞	11	9¼	7 1/16	⅝	¼
00	3½	2⅞	5½	7¾	6¾	7⅜	7 5/16	7¼	5¼	2⅞	4½	9	7½	1⅞	2⅜	14½	8⅜	14 9/16	12¼	9⅛	9/16	¼
0	4	6⅜	6 7/16	8¾	7¾	8 15/16	7	8¼	5 11/16	3½	5¼	9 7/16	8 11/16	2⅛	3	16½	12 13/16	15¼	14⅜	10¼	11/16	¼
1	4⅞	4	6 15/16	10¼	9	10¼	9 7/16	9⅜	6⅜	4⅛	6	10⅞	9⅞	2½	3½	19¼	10 13/16	19 1/16	16½	12¼	¾	⅜
2	5⅜	5	8 1/16	11¾	10½	11 11/16	11⅛	11⅛	7⅛	4½	7	13	10⅞	2⅜	3⅞	22¼	13 1/16	22¼	17⅞	14 9/16	13/16	½
3	6¼	5⅜	9¼	13⅜	12⅜	14	13	12⅞	8 13/16	5⅛	8¼	15⅛	12 7/16	3	4½	25¾	14⅞	25⅞	21⅛	17	15/16	½
4	7⅜	5 13/16	14 5/16	15¾	14¼	16½	15⅞	15	8¾	5⅝	9¾	16	13⅛	4	6	30	20⅛	30⅞	21⅞	19½	1	⅝
5	8⅞	8	12 1/16	19¼	17	19¼	17 7/16	18⅛	10	8 5/16	10⅝	18	19	4½	7½	36¼	20 1/16	35 9/16	29	22¾	1⅛	⅝
6	10¼	8⅞	15	21⅞	19⅜	22¼	21⅛	20¾	11¼	9½	12½	19½	21⅛	5¼	7⅞	41½	23⅞	41⅞	32⅜	26	1 5/16	⅝
7	12	11	18	25⅝	22⅞	26	24	24¼	12 9/16	10⅜	15	24	23 5/16	6½	9⅛	48½	29	48¼	35⅞	30¾	1½	¾
8	13⅞	18½	19¼	29	26	30¼	23⅝	27½	14¾	11¾	17¾	26¼	26⅝	8½	10⅛	55	37¾	51⅛	41⅜	36	1 11/16	¾
9	16	15	25	33¼	30¼	34½	31	32	16⅜	14 1/16	20¾	32¾	29⅜	10½	12⅝	64	40	63	46¼	40	1 15/16	⅞
10	18⅜	18⅛	27⅛	39¼	35¼	39¼	37	37	22⅜	21	24	36	39⅞	15	16	74½	45¼	74	62½	48	2 7/16	1

Double Inlet

Steel Pressure Blower—Design 2

Single Width

Full Housing **Bottom Horizontal Discharge**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Fan
4 0	2¼	6⅛	3⅜	4¾	5½	7⅛	6⅞	5⅛	4⅞	21⅛	3 5/16	5⅜	4⅞	1⅜	1⅞	10¼	9½	12	9¼	7 1/16	⅞	¼
2 0	3½	6½	5	6¼	7¼	7½	8¾	6¾	6⅞	3¼	4½	9⅛	6⅛	2	2⅝	13½	11½	15½	12¼	9⅛	9/16	⅜
0	4	7¾	6	7¼	8¼	9⅛	10⅜	7¾	7¼	3½	5¼	9½	7¼	2⅛	3	15½	13¾	18⅛	14½	10¼	11/16	⅜
1	4⅞	8⅞	6⅞	8⅝	9⅝	10⅜	11⅞	9	8¼	4⅛	6 5/16	10⅞	8¼	2½	3½	18	15¾	20⅞	16½	12¼	¾	⅜
2	5⅜	10¼	7	9⅞	11⅛	11¾	13½	10½	9	4½	7⅛	13	9	2⅝	3⅞	21	17¼	24	18	14 9/16	13/16	½
3	6¼	12½	8½	11⅜	12⅞	11⅞	16	12⅛	10⅜	4⅞	8¾	15⅛	10⅜	3	4½	21¼	21	28⅛	20¾	17	15/16	½
4	7⅛	14⅝	9⅞	13½	15	16⅝	18⅝	14⅛	13	5 9/16	9 11/16	16	13	4	5¼	28½	24¼	32⅞	26	19½	1	⅝
5	8⅞	16¾	12	15⅞	18⅛	19⅛	22½	17	11 11/16	6⅜	10¼	18	11 11/16	4½	6¾	31	28¼	39½	29⅜	22¼	1⅛	¾
6	10¼	18¾	13½	18½	20¾	22¼	25¾	19⅝	17⅛	7⅜	12⅞	19¼	17⅛	5¼	7⅞	39¼	32¼	45⅜	34¼	25	1 5/16	¾
7	12	22⅝	17⅜	21½	24¼	26⅛	29	22⅞	20⅜	9⅜	15 1/16	24	20⅜	6½	9⅛	45¾	40	51⅞	40¼	31	1½	¾
8	13⅞	25¾	19¼	24½	27½	30⅞	33	26	23	10½	17⅞	26¼	23	8½	10⅛	52	45	59	46	38	1 11/16	⅞
9	16	30	23½	28½	32	35	39⅛	30¼	25¾	11⅜	20¼	32¾	25¼	10½	12⅝	60½	53½	69⅞	51	41¼	1 15/16	⅞
10	18½	34 13/16	25 9/16	32¾	37	39	45½	35¼	30⅜	13¼	24	36	30⅜	15	16	69¾	60⅜	80¾	60¼	47	2 3/16	1

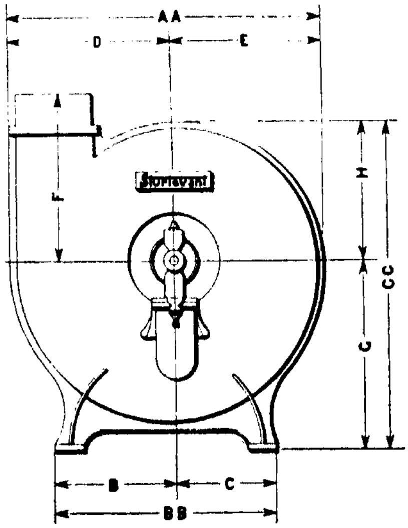
Double Inlet

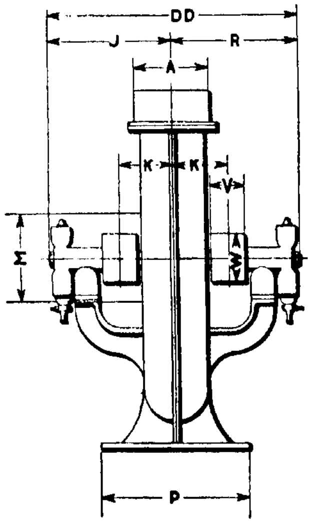
Steel Pressure Blower—Design 2

Single Width

Full Housing

Up Blast Discharge





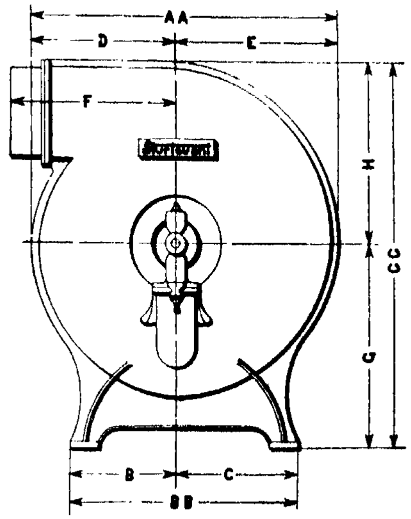
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Fan
4/0	2¾	4¾	4½	5⅛	5⅛	7⅛	6½	4⅜	4⅞	2⅛	3⁵⁄₁₆	5⅜	4⅞	1⅜	1⅞	10¼	9¼	12	9¾	7³⁄₁₆	½	½
2/0	3½	5¾	5½	7¾	6¾	7½	8¼	6½	6⅜	3¼	4½	9⅜	6⅜	2	2⅝	14½	11¼	14½	12¾	9⅛	⁹⁄₁₆	⅝
0	4	7	6	8⅝	7⅞	9⅛	9½	7¼	7¼	3½	5¼	9½	7¼	2⅛	3	16½	13	16¾	14½	10¾	¹¹⁄₁₆	⅝
1	4⅞	8	7	10¼	9	10¾	11	8⅝	8¼	4⅛	6³⁄₁₆	10⅞	8¼	2½	3½	19¼	15	19⅜	16½	12¼	¾	⅝
2	5⅜	9	8	11⅞	10⅜	11¾	12¾	9⅞	9	4½	7⅛	13	9	2⅝	3⅞	22¼	17	22⅝	18	14³⁄₁₆	¹³⁄₁₆	¾
3	6¼	10	9	13⅝	12⅛	14⅛	15	11⅝	10⅜	4⅞	8⅜	15⅛	10⅜	3	4½	25¾	19	26⅝	20¾	17	¹⁵⁄₁₆	¾
4	7⅝	12	10	15¾	14¼	16⅝	17	13⅛	13	5⁹⁄₁₆	9¹¹⁄₁₆	16	13	4	5¾	30	22	30⅛	26	19⅛	1	¾
5	8⅞	14	11⅝	19¼	17	19⅞	21½	15⅞	14¹¹⁄₁₆	6⅝	10¾	18	14¹¹⁄₁₆	4½	6¾	36¼	25⅝	37⅜	29⅜	22⅜	1⅛	¾
6	10¼	17⅜	12⅜	21⅞	19⅜	22¼	24½	18⅛	17⅛	7⅜	12⅜	19¾	17⅛	5¼	7⅞	41¼	29¾	42⅝	34¼	25	1³⁄₁₆	⅞
7	12	18⅝	18⅜	25⅝	22⅞	26⅛	25½	21⅛	20⅜	9⅜	15³⁄₁₆	24	20⅜	6⅛	9⅛	48½	36¾	46¾	40¾	31	1½	⅞
8	13¾	20	18¾	29	26	30⅜	31	24⅛	23	10½	17⅞	26¼	23	8⅜	10⅜	55	38¾	55⅛	46	38	1¹¹⁄₁₆	⅞
9	16	25½	23¾	33⅞	30⅛	35	34	28⅛	25¾	11⅞	20¾	32¼	25¾	10½	12⅞	64	59¼	62⅛	51½	41½	1¹⁵⁄₁₆	⅞
10	18⅛	27	27	39⅜	35⅛	39	42	32⅛	30⅜	13¾	24	36	30⅜	15	16	74½	54	74¾	60¾	47	2³⁄₁₆	1

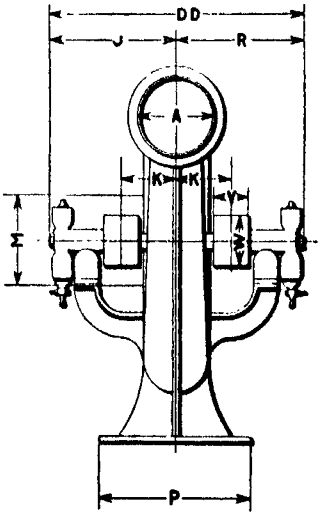
Double Inlet

Steel Pressure Blower—Design 2

Single Width

Full Housing **Top Horizontal Discharge**



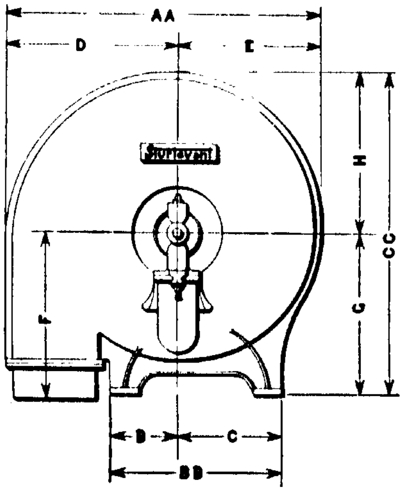


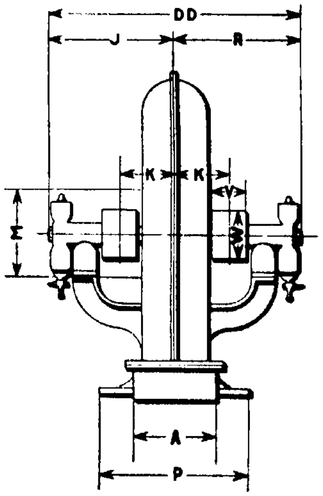
Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia.	Anchor Bolts Fan
4/0	2¾	4	4½	4¾	5½	7⅛	6	5⅞	4⅞	2⅛	3 13/16	5⅜	4⅞	1⅜	1⅞	10½	8½	11⅞	9¾	7 1/16	½	⅜
2/0	3½	5¼	5¾	6¼	7¼	7½	7¾	7¾	6⅝	3¼	4½	9⅛	6⅜	2	2⅜	13½	11	15½	12⅝	9⅛	9/16	⅜
0	4	6	7	7¼	8¼	9⅛	9	8¼	7¼	3½	5¼	9½	7¼	2⅛	3	15½	13	17¾	14½	10¾	11/16	⅜
1	4⅞	7	8	8⅜	9⅝	10⅝	10¾	10¼	8¼	4⅛	6 5/16	10⅞	8¼	2½	3½	18	15	20½	16½	12¼	¾	⅜
2	5⅞	8	9	9⅝	11⅛	11¾	12	11⅞	9	4½	7⅛	13	9	2⅝	3⅞	21	17	23⅝	18	14 9/16	13/16	½
3	6¼	9	10	11⅜	12⅞	14⅜	14	13⅝	10⅝	4⅞	8⅝	15⅛	10⅝	3	4½	24¼	19	27⅝	20⅜	17	15/16	½
4	7⅜	10½	12⅜	13½	15	16⅝	15⅝	15¾	13	5 9/16	9 13/16	16	13	4	5¾	28½	22½	30	26	19⅝	1	½
5	8⅞	12	14	15⅞	18⅛	19⅝	19	19¼	14 11/16	6⅞	10⅞	18	14 11/16	4½	6¾	34	26	38½	29⅝	22⅝	1⅛	½
6	10¼	16¼	16¼	18½	20⅝	22¼	23½	21⅞	17⅛	7⅝	12⅞	19¾	17⅛	5¼	7⅞	39¼	32½	45⅝	34¼	25	1 3/16	⅝
7	12	17¾	19	21½	24¼	26⅛	24⅜	25⅛	20⅜	9⅞	15 5/16	24	20⅜	6½	9⅛	45¼	36¾	50	40¾	31	1½	⅝
8	13⅞	18¾	20	24½	27½	30⅞	29	29	23	10½	17⅞	26¼	23	8½	10⅛	52	38¾	58	46	38	1 11/16	¾
9	16	24	26	28½	32	35	32½	33¾	25¾	11⅞	20¾	32¾	25¾	10½	12⅞	60½	50	66¼	51½	41½	1 15/16	¾
10	18½	27	30	32¾	37	39	40	39¼	30¾	13¾	24	36	30¾	15	16	69¾	57	79¼	60¼	47	2 3/16	1

Double Inlet **Single Width**

Steel Pressure Blower—Design 2

Full Housing **Down Blast Discharge**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Dia	Anchor Bolts Fan
4/0	2¼	4	4	5⅞	5⅛	7⅛	5½	5½	4⅞	2⅛	3 13/16	5⅜	4⅞	1⅜	1⅞	11	8	11	9¾	7 1/16	⅜	½
2/0	3½	3	5½	7¾	6¾	7½	7¼	7¼	6⅜	3¼	4½	9⅛	6⅜	2	2⅝	14½	8½	14½	12¾	9⅛	9/16	⅜
0	4	6½	6½	8¾	7¾	9⅛	7	8¼	7¼	3½	5¼	9½	7¼	2⅛	3	16½	13	15¼	14½	10¾	11/16	⅜
1	4⅞	4	7	10¼	9	10¾	9½	9⅜	8¼	4⅛	6 5/16	10⅞	8¼	2½	3½	19¼	11	19⅛	16½	12¼	¾	⅜
2	5⅜	5	8	11¾	10⅛	11¾	11¼	11⅛	9	4½	7⅛	13	9	2⅝	3⅞	22¼	13	22⅜	18	14 9/16	13/16	½
3	6¼	6	9	13⅜	12⅛	14⅛	13	12⅞	10⅜	4⅞	8⅜	15⅛	10⅜	3	4½	25¾	15	25⅞	20¾	17	15/16	½
4	7⅜	5¾	14¼	15¾	14¼	16⅜	15⅞	15	13	5 9/16	9 11/16	16	13	4	5¼	30	20	30⅞	26	19½	1	⅝
5	8⅞	8	12	19¼	17	19⅞	17½	18⅛	14 11/16	6¼	10¾	18	14 11/16	4½	6¼	36¼	20	35⅝	29⅜	22¾	1⅛	¾
6	10¼	9	15	21⅞	19⅜	22¼	21	20¾	17⅛	7⅜	12⅝	19¾	17⅛	5¼	7⅞	41½	24	41¾	34¼	25	1 5/16	¾
7	12	11	18	25⅜	22⅞	26⅛	24	24¼	20⅜	9⅜	15 1/16	24	20⅜	6½	9⅛	48½	29	48¼	40¾	31	1½	¾
8	13⅞	18½	19½	29	26	30⅝	23¾	27½	23	10½	17⅞	26¼	23	8½	10⅛	55	37½	51¼	46	38	1 11/16	⅞
9	16	25½	23¾	33¾	30⅛	35	34	28½	25¾	11¾	20¾	32¾	25¾	10½	12⅝	61	49¼	62½	51½	41¼	1 15/16	⅞
10	18½	18	27	39¼	35¾	39	37	37	30⅜	15¾	24	36	30⅜	15	16	71½	45	74	60¾	47	2 3/16	1

Double Inlet

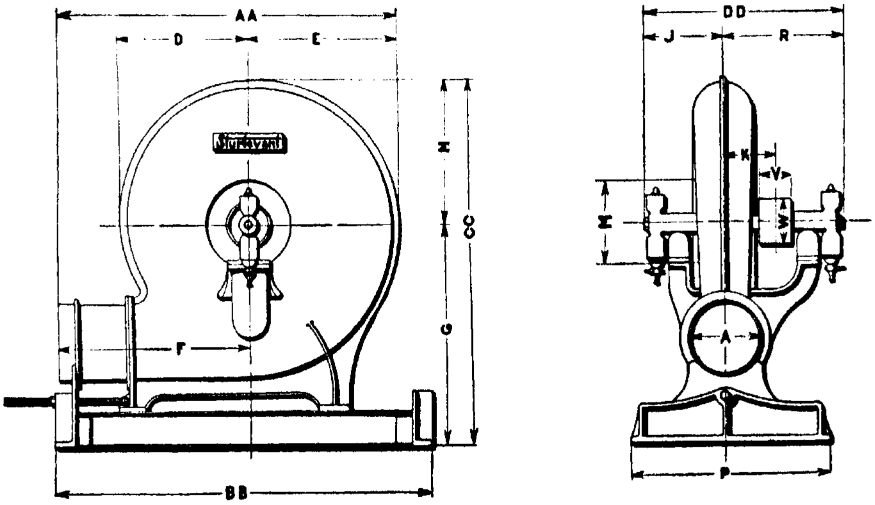
Steel Pressure Blower—Design 2

Single Width

On Adjustable Bed

Full Housing

Bottom Horizontal Discharge



Fan Size	·A	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Diameter of Shaft in Bearing	Anchor Bolts
4	8¼	13½	15	23¾	22¼	14¼	8¾	5⅜	9¾	14	13⅛	4	6	38¾	39	36½	21⅞	19½	1	⅝
5	9¾	15⅞	18⅛	26¾	26½	17	10	8 5/16	10⅜	16¾	19	4½	7¼	44⅜	44	43½	29	22¾	1⅛	⅝
6	11½	18½	20¾	29⅝	29⅞	19⅝	11¼	9½	12½	19¼	21⅛	5¼	7⅞	50⅜	51	49½	32⅜	26	1 5/16	⅝
7	13	21½	24¼	33⅞	34⅛	22⅞	12 9/16	10⅜	15	23¼	23 5/16	6½	9⅜	58⅛	60	57	35⅞	30¼	1½	¾
8	15⅛	24½	27½	37½	39⅛	26	14¼	11¼	17¼	25¾	26⅝	8½	10⅛	65	64	65⅛	41⅜	36	1 11/16	¾
9	17¼	28½	32	41⅞	47½	30¼	16⅝	14 1/16	20¾	32¼	29⅝	10½	12⅝	73⅞	79¾	77¾	46¼	40	1 15/16	⅞
10	19¾	32¾	37	60⅞	53½	35¼	22⅝	21	24	36	39⅞	15	16	97⅞	93½	88¾	62½	48	2 7/16	1

Double Inlet No. 0000 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
2710	5000	1.78	86	0.018												
2840	5250	1.96	94	0.057	42	0.030										
2980	5500	2.15	102	0.069	62	0.044										
3110	5750	2.35	109	0.080	75	0.059										
3250	6000	2.56	116	0.093	85	0.068										
3380	6250	2.78	123	0.110	95	0.083										
3520	6500	3.00	130	0.125	104	0.098	60	0.063								
3050	6750	3.23	137	0.140	112	0.115	75	0.080								
3790	7000	3.48	144	0.160			90	0.100								
3920	7250	3.73	151	0.175			100	0.120								
4060	7500	3.99	157	0.195			110	0.135	60	0.097						
4200	7750	4.26	164	0.220			120	0.160	86	0.120						
4330	8000	4.55	171	0.245			128	0.185	99	0.145						
4460	8250	4.83	177	0.270			137	0.210	112	0.170	56	0.120				
4600	8500	5.13	184	0.295					121	0.195	84	0.150				
4740	8750	5.44	190	0.325					130	0.225	101	0.180				
4870	9000	5.75	197	0.355					140	0.255	114	0.210				
5000	9250	6.07	204	0.385					119	0.285	125	0.240	90	0.190		
5140	9500	6.40	210	0.425					157	0.315	136	0.265	106	0.225		
5280	9750	6.75	216	0.46							145	0.305	120	0.260	65	0.18
5410	10000	7.10	222	0.49							154	0.345	131	0.295	98	0.21
5550	10250	7.47	230	0.54							163	0.385	141	0.330	114	0.28
5690	10500	7.83	236	0.58							171	0.425	152	0.375	127	0.33
5820	10750	8.21	242	0.62							180	0.455	162	0.42	139	0.37
5950	11000	8.59	248	0.68									171	0.46	150	0.41

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
5690	10500	7.83	86	0.250												
5820	10750	8.21	108	0.305												
5950	11000	8.59	124	0.35												

Double Inlet No. 0 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1775	5000	1.78	181	0.100												
1860	5250	1.96	197	0.120	88	0.064										
1950	5500	2.15	214	0.145	131	0.093										
2040	5750	2.35	228	0.170	157	0.125										
2130	6000	2.56	243	0.195	178	0.145										
2220	6250	2.78	258	0.225	199	0.175										
2300	6500	3.00	273	0.260	218	0.205	126	0.135								
2400	6750	3.23	288	0.290	236	0.24	159	0.165								
2485	7000	3.48	303	0.335			189	0.21								
2575	7250	3.73	317	0.370			211	0.25								
2660	7500	3.99	330	0.415			233	0.28	144	0.205						
2750	7750	4.26	346	0.46			252	0.34	181	0.255						
2840	8000	4.55	359	0.52			271	0.39	209	0.305						
2930	8250	4.83	371	0.57			288	0.44	235	0.360	118	0.250				
3020	8500	5.13	388	0.63					255	0.415	176	0.315				
3110	8750	5.44	400	0.68					274	0.47	213	0.38				
3190	9000	5.75	415	0.75					295	0.53	239	0.44				
3280	9250	6.07	430	0.81					313	0.60	264	0.51	189	0.395		
3370	9500	6.40	442	0.89					330	0.66	287	0.56	223	0.47		
3460	9750	6.75	453	0.97							306	0.64	252	0.55	136	0.375
3550	10000	7.10	467	1.05							324	0.72	276	0.63	207	0.51
3640	10250	7.47	482	1.15							341	0.80	296	0.70	240	0.60
3730	10500	7.83	496	1.20							360	0.89	320	0.79	266	0.70
3820	10750	8.21	508	1.30							378	0.96	340	0.88	293	0.78
3910	11000	8.59	521	1.45									359	0.97	316	0.86
4000	11250	8.99	535	1.50									377	1.05	337	0.95
4080	11500	9.39	547	1.60									395	1.15	359	1.05
4175	11750	9.81	562	1.75									412	1.25	378	1.15
4270	12000	10.2	576	1.85											395	1.30
4350	12250	10.7	589	1.95											415	1.40
4440	12500	11.1	602	2.10											430	1.50
4530	12750	11.6	615	2.25											448	1.65

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9' Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
3730	10500	7.83	181	0.53												
3820	10750	8.21	228	0.64												
3910	11000	8.59	261	0.74												
3990	11250	8.99	289	0.84	226	0.71										
4080	11500	9.38	314	0.94	256	0.80										
4170	11750	9.81	338	1.05	287	0.92	203	0.73								
4270	12000	10.2	358	1.15	315	1.05	253	0.88								
4350	12250	10.7	379	1.25	340	1.15	286	1.00	185	0.85						
4430	12500	11.1	400	1.40	362	1.30	315	1.15	251	0.97						
4530	12750	11.6	418	1.55	382	1.40	341	1.25	290	1.10	146	0.78				
4620	13000	12.0	437	1.65	402	1.50	364	1.40	318	1.25	252	1.10				
4710	13250	12.5	455	1.80	423	1.65	387	1.55	343	1.40	292	1.25				
4790	13500	12.9	472	1.95	441	1.80	408	1.65	368	1.50	323	1.35	257	1.20		
4880	13750	13.4			461	1.95	428	1.80	398	1.65	351	1.55	297	1.35		
4970	14000	13.9			480	2.1	447	1.95	411	1.8	377	1.65	329	1.5	265	1.35

Double Inlet **Single Width**

No. 1 Steel Pressure Blower—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1558	5000	1.78	0.045	278	0.155												
1635	5250	1.96	0.052	303	0.185	136	0.099										
1713	5500	2.15	0.059	329	0.22	202	0.145										
1790	5750	2.35	0.068	351	0.26	242	0.190										
1870	6000	2.56	0.077	375	0.30	274	0.220										
1947	6250	2.78	0.087	398	0.35	306	0.270										
2025	6500	3.00	0.098	420	0.40	336	0.315	194	0.205								
2100	6750	3.23	0.110	443	0.45	364	0.37	244	0.255								
2180	7000	3.48	0.125	467	0.52			291	0.325								
2260	7250	3.73	0.135	487	0.57			325	0.38								
2340	7500	3.99	0.150	508	0.64			358	0.43	222	0.315						
2415	7750	4.26	0.165	531	0.71			389	0.52	278	0.39						
2490	8000	4.55	0.185	553	0.79			417	0.60	322	0.47						
2570	8250	4.83	0.200	574	0.88			444	0.67	361	0.56	182	0.385				
2650	8500	5.13	0.220	597	0.96					392	0.64	271	0.485				
2720	8750	5.44	0.240	615	1.05					422	0.73	327	0.58				
2800	9000	5.75	0.260	638	1.15					454	0.82	368	0.68				
2880	9250	6.07	0.285	661	1.25					481	0.92	406	0.78	291	0.61		
2960	9500	6.40	0.305	680	1.35					507	1	442	0.86	342	0.72		
3040	9750	6.75	0.330	697	1.50							470	0.98	388	0.85	209	0.58
3115	10000	7.10	0.360	718	1.60							498	1.10	425	0.96	318	0.78
3195	10250	7.47	0.385	742	1.75							528	1.25	455	1.05	369	0.91
3270	10500	7.83	0.415	764	1.90							555	1.35	492	1.20	410	1.05
3350	10750	8.21	0.445	781	2.00							582	1.5	524	1.35	451	1.20
3430	11000	8.59	0.48	802	2.20									552	1.50	480	1.35
3500	11250	8.99	0.51	823	2.30									580	1.65	519	1.45
3580	11500	9.39	0.55	842	2.50									608	1.80	552	1.65
3660	11750	9.81	0.58	865	2.70									634	1.95	581	1.80
3740	12000	10.2	0.62	887	2.85											607	1.95
3820	12250	10.7	0.66	906	3.05											638	2.15
3900	12500	11.1	0.70	925	3.25											660	2.3
3970	12750	11.6	0.75	946	3.45											688	2.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 oz. per sq. inch		Static Pressure 11" Water 6.36 oz. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
3270	10500	7.83	0.415	278	0.81												
3350	10750	8.21	0.445	351	0.98												
3430	11000	8.59	0.480	401	1.15												
3510	11250	8.99	0.51	445	1.30	346	1.10										
3580	11500	9.38	0.55	482	1.45	393	1.25										
3660	11750	9.81	0.58	519	1.60	442	1.40	312	1.15								
3740	12000	10.2	0.62	550	1.75	484	1.60	389	1.35								
3820	12250	10.7	0.66	582	1.95	522	1.80	440	1.55	284	1.30						
3900	12500	11.1	0.70	615	2.15	555	1.95	484	1.75	386	1.50						
3970	12750	11.6	0.75	644	2.35	586	2.15	524	1.95	445	1.70	226	1.20				
4050	13000	12.0	0.79	671	2.55	617	2.35	560	2.15	488	1.90	388	1.70				
4130	13250	12.5	0.84	700	2.75	650	2.55	594	2.35	528	2.10	450	1.90				
4200	13500	12.9	0.88	726	2.95	677	2.75	626	2.55	567	2.35	497	2.10	394	1.8		
4290	13750	13.4	0.93			707	3.00	659	2.75	605	2.55	539	2.35	456	2.1		
4360	14000	13.9	0.98			737	3.25	686	3.0	633	2.75	580	2.55	506	2.3	408	2.05
4440	14250	14.4	1.05			763	3.45	720	3.3	668	3.05	616	2.85	550	2.6	472	2.3
4520	14500	14.9	1.1					745	3.5	699	3.3	648	3.05	580	2.8	522	2.6

Double Inlet

No. 2 Steel Pressure Blower—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1310	5000	1.81	0.055	361	0.170												
1375	5250	2.00	0.064	394	0.205	218	0.130										
1440	5500	2.20	0.073	428	0.245	285	0.180										
1505	5750	2.40	0.084	457	0.280	329	0.225										
1570	6000	2.61	0.095	489	0.330	368	0.265										
1635	6250	2.84	0.110	519	0.380	402	0.31										
1705	6500	3.08	0.120	550	0.435			289	0.265								
1765	6750	3.31	0.135	579	0.51			351	0.310								
1835	7000	3.56	0.150	611	0.57			395	0.405								
1900	7250	3.81	0.170	638	0.64			435	0.465	183	0.250						
1965	7500	4.08	0.185	670	0.71			471	0.53	334	0.370						
2030	7750	4.35	0.205	696	0.78			507	0.6	394	0.475						
2095	8000	4.64	0.225	725	0.88					441	0.58						
2160	8250	4.94	0.250	753	0.96					484	0.68	326	0.49				
2230	8500	5.23	0.270	780	1.05					521	0.76	401	0.62				
2290	8750	5.55	0.295	808	1.20					555	0.84	459	0.74				
2360	9000	5.88	0.320	836	1.30							504	0.85	341	0.62		
2425	9250	6.21	0.350	864	1.40							547	0.96	428	0.78		
2490	9500	6.55	0.380	894	1.50							582	1.05	486	0.93		
2550	9750	6.89	0.410	920	1.65							615	1.15	533	1.05	381	0.80
2620	10000	7.25	0.440	949	1.80							653	1.3	578	1.20	464	1.00
2690	10250	7.61	0.475	975	1.95									617	1.35	522	1.15
2750	10500	7.99	0.51	1000	2.10									650	1.45	573	1.35
2820	10750	8.37	0.55	1030	2.25									685	1.55	615	1.50
2890	11000	8.77	0.59	1060	2.45									718	1.7	655	1.65
2950	11250	9.18	0.63	1080	2.65											691	1.80
3020	11500	9.6	0.67	1110	2.90											726	2.00
3080	11750	10	0.71	1140	3.15											762	2.15

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.62 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.37 ozs. per sq. inch		Static Pressure 12" Water 6.95 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pressure 14" Water 8.1 ozs. per sq. inch	
2690	10250	7.61	0.475	258	0.71												
2750	10500	7.99	0.51	437	1.05												
2820	10750	8.37	0.55	508	1.25												
2890	11000	8.77	0.59	568	1.45	405	1.10										
2950	11250	9.18	0.63	617	1.65	497	1.35										
3020	11500	9.60	0.67	659	1.85	566	1.60	375	1.15								
3080	11750	10.0	0.71	700	2.05	622	1.85	495	1.50								
3150	12000	10.4	0.76	735	2.20	667	2.00	567	1.75								
3220	12250	10.9	0.81	769	2.35	707	2.20	623	2.00	485	1.60						
3280	12500	11.3	0.86	801	2.5	746	2.40	671	2.20	568	1.90						
3350	12750	11.8	0.91			780	2.55	717	2.40	633	2.20	488	1.75				
3410	13000	12.3	0.97			818	2.75	762	2.65	691	2.45	579	2.10				
3480	13250	12.7	1.05			850	2.95	798	2.85	734	2.70	643	2.40	500	1.95		
3540	13500	13.2	1.10					831	3.05	772	2.90	703	2.70	591	2.35		
3610	13750	13.7	1.15					865	3.25	813	3.15	751	3.00	658	2.65	520	2.20
3670	14000	14.2	1.20					903	3.5	853	3.40	792	3.25	718	3.00	610	2.60
3740	14250	14.7	1.30							886	3.60	836	3.50	773	3.30	678	2.95
3800	14500	15.3	1.35							917	3.85	871	3.75	810	3.55	738	3.25
3870	14750	15.8	1.4							957	4.1	906	3.95	853	3.80	791	3.50
3940	15000	16.3	1.5									938	4.2	896	4.15	836	3.95

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.0 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
3740	14250	14.7	1.30	553	2.5												
3800	14500	15.3	1.35	640	2.9	366	2.0										
3870	14750	15.8	1.4	705	3.3	576	2.8										
3940	15000	16.3	1.5	761	3.6	664	3.2	490	2.6								

Double Inlet No. 3 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
1120	5000	1.81	0.073	477	0 225												
1175	5250	2 00	0 084	520	0 270	288	0 175										
1230	5500	2 20	0.097	565	0.325	375	0 240										
1290	5750	2 40	0.110	603	0.370	434	0.295										
1345	6000	2 61	0 125	646	0 435	484	0 355										
1400	6250	2.84	0 145	686	0.50	528	0.405										
1455	6500	3.06	0 160	726	0.58			381	0.345								
1515	6750	3.31	0.180	765	0 67			463	0.40								
1570	7000	3.56	0.200	807	0.75			523	0.53								
1625	7250	3.81	0 225	842	0 84			574	0 62	241	0.330						
1680	7500	4.08	0 245	884	0 94			621	0 69	441	0.485						
1735	7750	4 35	0.270	919	1.05			670	0.79	520	0 63						
1790	8000	4 64	0 300	957	1.15					582	0.76						
1850	8250	4.94	0.325	994	1.25					638	0 89	430	0 65				
1905	8500	5.23	0.360	1,030	1.40					687	1.0	520	0 82				
1960	8750	5 55	0 390	1,070	1.55					731	1.1	606	0 98				
2020	9000	5.88	0 425	1,100	1 70							666	1.10	450	0.815		
2075	9250	6.21	0.46	1,140	1.85							721	1.25	565	1.05		
2130	9500	6.55	0.50	1,180	2.00							768	1 40	641	1 20		
2185	9750	6.89	0.54	1,220	2.15							811	1.55	704	1 40	503	1 05
2245	10000	7.25	0.58	1,250	2.40							861	1.7	763	1.55	610	1.30
2300	10250	7.61	0.63	1,290	2.55									813	1.75	686	1.50
2355	10500	7.99	0.68	1,320	2.80									856	1.90	755	1.75
2420	10750	8.37	0 72	1,360	2 95									902	2.05	811	1.95
2465	11000	8.77	0.78	1,390	3.25									947	2 25	863	2.20
2510	11250	9 18	0.83	1,430	3.50											910	2.40
2580	11500	9.6	0.89	1,460	3.80											955	2.65
2640	11750	10	0.95	1,500	4.15											1,010	2.85

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.62 ozs. per sq.inch		Static Pressure 9" Water 5.2 per ozs. sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.37 ozs. per sq. inch		Static Pressure 12" Water 6.95 ozs. per sq. inch		Static Pressure 13" Water 7.52 ozs. per sq. inch		Static Pessure 14" Water 8.1 ozs. per sq. inch	
2300	10250	7.61	0.63	342	0.95												
2355	10500	7 99	0.68	575	1.40												
2410	10750	8 37	0 72	672	1 65												
2465	11000	8.77	0 78	748	1.90	535	1.45										
2520	11250	9 18	0.83	814	2.15	656	1.80										
2580	11500	9.60	0 89	870	2.45	747	2.10	495	1.55								
2640	11750	10.0	0.95	925	2.70	822	2.40	654	1.95								
2695	12000	10 4	1 00	970	2.90	879	2.65	747	2.30								
2750	12250	10 9	1.05	1,010	3.10	932	2.90	822	2.60	640	2.10						
2805	12500	11.3	1.15	1,060	3.25	985	3.15	885	2.90	750	2.50						
2860	12750	11.8	1.20			1,030	3.4	945	3 20	834	2 90	643	2.35				
2920	13000	12 3	1.30			1,080	3.6	1,010	3.50	910	3.25	762	2.80				
2970	13250	12.7	1.35			1,120	3.9	1,050	3.75	968	3.55	817	3 15	659	2 60		
3030	13500	13.2	1.45					1,100	4.05	1,020	3.85	925	3.60	780	3.05		
3080	13750	13.7	1.50					1,140	4.3	1,070	4.15	990	3.90	869	3.50	685	2.90
3140	14000	14.2	1.60					1,190	4 6	1,130	4.45	1,050	4.25	947	3.95	805	3 40
3200	14250	14.7	1 70							1,170	4.75	1,100	4.60	1,010	4.35	895	3.85
3250	14500	15.3	1.80							1,210	5.1	1,150	4 95	1,070	4.6	974	4.30
3310	14750	15.8	1.85							1,260	5 4	1,190	5.2	1,130	5.0	1,040	4.75
3360	15000	16.3	1 95									1,240	5.6	1,180	5.4	1,100	5.2
3420	15250	16 8	2.05									1,290	5.9	1,230	5.8	1,160	5.6
3475	15500	17 4	2 15									1,320	6.1	1,270	6.1	1,210	5.8
3527	15750	18 0	2 30											1,310	6.5	1,260	6.3
3585	16000	18.6	2 40											1,360	6.8	1,300	6.7

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 15" Water 8.67 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq. inch		Static Pressure 20" Water 11.57 ozs. per sq. inch		Static Pressure 21" Water 12.14 ozs. per sq. inch	
3200	14250	14.7	1 70	729	3 30												
3250	14500	15 3	1.80	843	3.85	482	2.65										
3310	14750	15.8	1.85	930	4.30	760	3.65										
3360	15000	16 3	1 95	1,010	4.75	875	4.25	645	3.30								
3420	15250	16.8	2.05	1,080	5.3	963	4.8	810	4 15								
3475	15500	17.4	2.15	1,130	5.7	1,040	5 3	920	4.75	717	3 95						
3527	15750	18.0	2.30	1,190	6.1	1,110	5.8	1,010	5.4	864	4.7						
3585	16000	18 6	2 40	1,240	6.5	1,170	6.3	1,090	5.9	960	5.3	795	4.55				
3640	16250	19 2	2.50	1,290	6 9	1,230	6.7	1,160	6.5	1,060	6.0	924	5 3	700	4.35		
3700	16500	19.7	2.60	1,340	7 3	1,280	7.1	1,210	6.9	1,120	6 5	1,010	5.9	858	5.2		
3750	16750	20.4	2.75	1,380	7.7	1,330	7.6	1,260	7.4	1,190	7.1	1,090	6.5	975	5.9	784	5.0
3810	17000	21	2.85	1,420	8.2	1,380	8	1,320	7.8	1,250	7.5	1,170	7.1	1,060	6.6	933	5.9

Double Inlet No. 4 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
980	5000	1.84	0.087	972	0.41	320	0.175										
1030	5250	2.03	0.100	1,060	0.56	540	0.280										
1080	5500	2.25	0.115	1,140	0.65	703	0.390										
1125	5750	2.43	0.130	1,220	0.80	820	0.485										
1175	6000	2.65	0.150	1,290	0.95	910	0.60										
1225	6250	2.88	0.170	1,360	1.10	1,060	0.75	527	0.41								
1270	6500	3.11	0.190	1,430	1.25			700	0.55								
1320	6750	3.35	0.215	1,520	1.41			861	0.71								
1370	7000	3.61	0.240	1,570	1.60			986	0.87								
1420	7250	3.87	0.265	1,640	1.80			1,120	1.05	634	0.65						
1470	7500	4.14	0.295	1,710	2.00			1,230	1.2	809	0.85						
1520	7750	4.42	0.325	1,780	2.20			1,340	1.4	955	1.00						
1565	8000	4.71	0.355	1,840	2.45					1,090	1.20	609	0.80				
1620	8250	5.00	0.390	1,910	2.70					1,220	1.45	816	1.05				
1660	8500	5.31	0.425	1,970	3.00					1,340	1.65	968	1.30				
1710	8750	5.63	0.465	2,040	3.25					1,470	1.95	1,120	1.55	657	1.10		
1760	9000	5.94	0.51	2,100	3.50					1,560	2.2	1,250	1.80	855	1.30		
1810	9250	6.28	0.55	2,170	3.85							1,380	2.10	1,020	1.60		
1860	9500	6.63	0.60	2,230	4.2							1,490	2.40	1,170	1.95	753	1.40
1910	9750	6.97	0.64	2,290	4.6							1,610	2.70	1,310	2.25	974	1.75
1960	10000	7.35	0.69	2,360	5.0							1,720	3.05	1,450	2.60	1,120	2.05
2010	10250	7.72	0.75	2,420	5.4									1,560	2.95	1,260	2.40
2060	10500	8.11	0.80	2,490	5.9									1,690	3.30	1,400	2.80
2100	10750	8.49	0.86	2,550	6.4									1,800	3.65	1,530	3.20
2150	11000	8.90	0.92	2,610	6.9									1,910	4.1	1,660	3.60
2200	11250	9.30	0.96	2,680	7.4											1,770	3.95
2250	11500	9.72	1.05	2,740	8.0											1,890	4.4
2300	11750	10.2	1.13	2,820	8.5											2,000	4.9

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 oz. per sq. inch		Static Pressure 11" Water 6.36 oz. per sq. inch		Static Pressure 12" Water 6.93 ozs per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq inch	
1960	10000	7.35	0.69	621	1.40												
2010	10250	7.72	0.75	890	1.85												
2060	10500	8.11	0.80	1,070	2.20												
2100	10750	8.49	0.86	1,240	2.60	830	1.95										
2160	11000	8.90	0.92	1,380	3.05	1,040	2.40										
2200	11250	9.30	0.99	1,540	3.45	1,200	2.85	794	2.10								
2250	11500	9.72	1.05	1,640	3.90	1,360	3.3	1,020	2.65								
2300	11750	10.2	1.15	1,770	4.35	1,510	3.8	1,210	3.10	778	2.30						
2350	12000	10.6	1.20	1,880	4.8	1,650	4.3	1,370	3.65	1,030	2.95						
2450	12500	11.5	1.35	2,120	5.7	1,880	5.2	1,640	4.65	1,390	3.95	1,050	3.25				
2540	13000	12.4	1.50	2,340	6.7	2,110	6.2	1,910	5.8	1,690	5.1	1,400	4.4	1,085	3.65		
2640	13500	13.4	1.70			2,330	7.4	2,150	6.9	1,950	6.3	1,700	5.6	1,440	4.9	1,130	4.1
2740	14000	14.4	1.90					2,380	8.2	2,170	7.6	1,970	7.0	1,740	6.2	1,470	5.4
2840	14500	15.5	2.10							2,400	8.9	2,210	8.1	2,010	7.6	1,780	6.8
2040	15000	16.5	2.35							2,620	10	2,450	9.9	2,270	9.2	2,060	8.4
3040	15500	17.7	2.60									2,680	11.5	2,480	10.5	2,310	9.9
3130	16000	18.8	2.85											2,720	12.5	2,540	11.5
3240	16500	20.0	3.1											2,940	14	2,770	13
3320	17000	21.3	3.4													3,000	15

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
2740	14000	14.4	1.90	1,170	4.6												
2840	14500	15.5	2.10	1,540	6.0	1,260	5.2										
2940	15000	16.5	2.35	1,840	7.5	1,630	6.8	1,330	5.8								
3040	15500	17.7	2.60	2,130	9.3	1,930	8.5	1,700	7.5	1,400	6.8	1,080	5.5				
3130	16000	18.8	2.85	2,370	11.0	2,190	10.0	1,980	9.3	1,750	8.3	1,520	7.4	1,220	6.4		
3240	16500	20.0	3.10	2,620	12.5	2,430	12.0	2,260	11	2,050	10.0	1,860	9.3	1,670	8.3	1,340	7.3
3320	17000	21.3	3.40	2,850	14.5	2,680	13.5	2,520	13	2,340	12.0	2,160	11.5	1,990	10.5	1,760	9.5
3420	17500	22.5	3.70	3,070	16.5	2,910	15.5	2,750	15	2,590	14.0	2,420	13.5	2,260	12.5	2,070	11.5
3520	18000	23.8	4.05			3,110	17.5	2,970	17	2,820	16.0	2,660	15.5	2,500	14.5	2,350	13.5
3620	18500	25.2	4.4					3,200	19	3,070	18.5	2,890	17.5	2,760	17.0	2,590	15.5
3720	19000	26.6	4.8							3,280	20.5	3,130	20.0	3,000	19.0	2,840	18.0
3820	19500	28.0	5.1									3,360	22.5	3,220	21.5	3,080	20.5
3920	20000	20.4	5.6											3,440	24	3,310	23

Double Inlet No. 4 Steel Pressure Blower — Design 2 — Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22"Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
3320	17000	21.3	3.40	1,480	8.4	1,160	7.2										
3420	17500	22.5	3.70	1,860	10.5	1,590	9.4	1,320	8.3								
3520	18000	23.8	4.05	2,160	12.5	1,960	11.5	1,760	10.5	1,450	9.5						
3620	18500	25.2	4.4	2,410	15.0	2,250	14.0	2,060	13.0	1,870	12.0	1,620	11.0	1,340	9.5		
3720	19000	26.6	4.8	2,700	17.5	2,530	16.5	2,360	16.0	2,180	14.0	1,990	13.0	1,770	12.5	1,530	11.0
3820	19500	28.0	5.1	2,940	20.0	2,780	19.0	2,630	18.0	2,470	16.5	2,290	15.5	2,110	15.0	1,920	14.0
3920	20000	29.4	5.6	3,180	22.5	3,030	21.5	2,880	20.5	2,720	19.5	2,620	18.5	2,400	17.5	2,240	16.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.4 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch	
3720	19000	26.6	4.8	1,060	8.9												
3820	19500	28.0	5.1	1,700	12.5	1,400	11										
3920	20000	29.4	5.6	2,040	15.5	1,830	14										

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch	

Double Inlet No. 5 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Contintously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
840	5000	1.84	0.125	1,400	0.64	461	0.255										
880	5250	2.03	0.145	1,520	0.81	780	0.405										
925	5500	2.25	0.165	1,640	0.98	1,010	0.57										
965	5750	2.43	0.185	1,750	1.15	1,190	0.70										
1010	6000	2.65	0.215	1,860	1.35	1,360	0.87										
1050	6250	2.88	0.245	1,930	1.60	1,530	1.1	761	0.59								
1090	6500	3.11	0.275	2,070	1.80			1,010	0.80								
1135	6750	3.35	0.310	2,190	2.05			1,240	1.00								
1175	7000	3.61	0.345	2,270	2.30			1,420	1.25								
1220	7250	3.87	0.380	2,370	2.55			1,620	1.50	915	0.94						
1260	7500	4.14	0.425	2,470	2.9			1,770	1.75	1,170	1.20						
1300	7750	4.42	0.465	2,560	3.2			1,930	2.05	1,380	1.50						
1340	8000	4.71	0.52	2,650	3.5					1,580	1.75	880	1.15				
1385	8250	5.00	0.56	2,750	3.9					1,760	2.05	1,180	1.50				
1425	8500	5.31	0.62	2,840	4.3					1,930	2.40	1,400	1.85				
1470	8750	5.63	0.67	2,940	4.7					2,120	2.85	1,620	2.25	948	1.55		
1510	9000	5.94	0.73	3,040	5.1					2,250	3.2	1,810	2.65	1,235	1.90		
1550	9250	6.28	0.79	3,130	5.5							1,990	3.05	1,480	2.35		
1595	9500	6.63	0.86	3,220	6.1							2,150	3.45	1,690	2.80	1,090	2.05
1640	9750	6.97	0.93	3,310	6.7							2,330	3.9	1,890	3.25	1,410	2.50
1680	10000	7.35	1.00	3,400	7.3							2,490	4.4	2,090	3.75	1,610	3.00
1720	10250	7.72	1.10	3,500	7.8									2,260	4.25	1,820	3.50
1760	10500	8.11	1.15	3,580	8.5									2,440	4.8	2,020	4.05
1810	10750	8.49	1.25	3,680	9.2									2,590	5.3	2,210	4.6
1850	11000	8.90	1.35	3,760	10.0									2,750	5.9	2,400	5.2
1890	11250	9.30	1.45	3,860	10.5											2,560	5.7
1930	11500	9.72	1.50	3,940	11.5											2,730	6.4
1975	11750	10.2	1.65	4,060	12.5											2,890	7.1

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1680	10000	7.35	1.00	896	2.00												
1720	10250	7.72	1.10	1,290	2.65												
1760	10500	8.11	1.15	1,540	3.2												
1810	10750	8.49	1.25	1,790	3.7	1,200	2.80										
1850	11000	8.90	1.35	1,990	4.4	1,490	3.45										
1890	11250	9.30	1.45	2,220	5.0	1,740	4.10	1,150	3.05								
1930	11500	9.72	1.50	2,370	5.7	1,960	4.75	1,480	3.8								
1975	11750	10.2	1.65	2,550	6.3	2,180	5.5	1,740	4.5	1,120	3.35						
2020	12000	10.6	1.75	2,720	7.0	2,380	6.2	1,980	5.3	1,490	4.25						
2100	12500	11.5	1.95	3,060	8.3	2,710	7.4	2,370	6.7	2,000	5.7	1,510	4.70				
2180	13000	12.4	2.20	3,380	9.7	3,050	9.0	2,750	8.3	2,440	7.4	2,020	6.35	1,570	5.3		
2270	13500	13.4	2.45			3,370	10.5	3,100	10	2,800	9.1	2,460	8.1	2,080	7.1	1,630	5.9
2360	14000	14.4	2.75					3,400	12	3,130	11	2,840	10.0	2,510	9.0	2,130	7.8
2440	14500	15.5	3.05							3,470	13	3,200	12.0	2,900	11.0	2,570	9.9
2520	15000	16.5	3.40							3,780	15	3,540	14.5	3,280	13.0	2,980	12.0
2600	15500	17.7	3.75									3,870	16.5	3,590	15.5	3,340	14.5
2680	16000	18.8	4.1											3,930	17.5	3,660	16.5
2770	16500	20.0	4.5											4,240	20	4,000	19
2850	17000	21.3	4.9													4,330	22

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.32 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
2360	14000	14.4	2.75	1,700	6.6												
2440	14500	15.5	3.05	2,220	8.7	1,820	7.5										
2520	15000	16.5	3.40	2,660	11.0	2,360	9.8	1,920	8.4								
2600	15500	17.7	3.75	3,070	13.5	2,780	12.0	2,460	11.0	2,020	9.8	1,570	8.0				
2680	16000	18.8	4.1	3,420	15.5	3,160	14.5	2,870	13.5	2,540	12.0	2,190	10.5	1,760	9.5		
2770	16500	20.0	4.5	3,780	18.5	3,510	17.0	3,270	16.0	2,960	14.5	2,680	13.5	2,400	12	1,940	10.5
2850	17000	21.3	4.9	4,110	21.0	3,870	20.0	3,650	19.0	3,380	17.5	3,120	16.5	2,870	15	2,540	13.5
2940	17500	22.5	5.4	4,430	23.5	4,200	22.5	3,960	21.5	3,740	20.5	3,490	19.5	3,220	18	2,990	16.5
3020	18000	23.8	5.8			4,500	25	4,300	24.5	4,080	23.5	3,840	22	3,610	21	3,390	19.5
3100	18500	25.2	6.4					4,630	28	4,430	27	4,180	25	3,980	24	3,740	22.5
3190	19000	26.6	6.9							4,740	30	4,520	29	4,350	28	4,090	26
3280	19500	28.0	7.4									4,860	32	4,660	31	4,450	30
3360	20000	29.4	8.0											4,970	35	4,780	34
3440	20500	30.9	8.6											5,260	39	5,100	38

Double Inlet No. 5 Steel Pressure Blower — Design 2 — Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed R.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inches	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2850	17000	21.3	4.9	2,140	12.0	1,680	10.5										
2940	17500	22.5	5.4	2,690	15.0	2,290	13.5	1,900	12.0								
3020	18000	23.8	5.8	3,120	18.0	2,840	17.0	2,540	15.5	2,100	13.5						
3100	18500	25.2	6.4	3,510	21.5	3,250	20.5	2,970	19.0	2,700	17.0	2,340	15.5	1,930	14.0		
3190	19000	26.6	6.9	3,900	25	3,650	24	3,410	22.5	3,150	20.5	2,880	19.0	2,550	17.5	2,200	16
3280	19500	28.0	7.4	4,250	29	4,020	27	3,790	26	3,570	24	3,310	22.5	3,040	21.5	2,770	20
3360	20000	29.4	8.0	4,590	32	4,380	31	4,160	30	3,940	28	3,780	27	3,400	25	3,230	24
3440	20500	30.9	8.6	4,930	37	4,710	35	4,480	34	4,280	33	4,070	31	3,830	30	3,660	28
3520	21000	32.4	9.3	5,230	40	5,040	39	4,840	38	4,650	37	4,430	36	4,250	34	4,030	32
3620	21500	34	9.9			5,350	43	5,200	42	5,000	41	4,810	40	4,570	38	4,380	37

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch	
3190	19000	26.6	6.9	1,530	12.5												
3280	19500	28.0	7.4	2,450	18	2,020	16.0										
3360	20000	29.4	8.0	2,930	22	2,640	20.5	2,300	18.5	1,750	15.5						
3440	20500	30.9	8.6	3,400	26	3,140	24.5	2,880	23	2,600	21.5	2,180	19				
3520	21000	32.4	9.3	3,810	31	3,560	29	3,340	27	3,070	26	2,780	24	2,470	22		
3620	21500	34	9.9	4,300	37	3,960	33	3,750	32	3,540	30	3,300	29	3,030	27		

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S. N. D. H. P.	Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch	

Double Inlet **No. 6 Steel Pressure Blower—Design 2** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 2″ Water 1.16 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressure 7″ Water 4.05 ozs. per sq. inch	
735	5000	1.84	0.180	1,990	0.91	655	0.36										
770	5250	2.03	0.205	2,160	1.15	1,110	0.58										
810	5500	2.25	0.235	2,330	1.40	1,440	0.81										
845	5750	2.43	0.265	2,480	1.65	1,690	1.00										
880	6000	2.65	0.305	2,640	1.95	1,930	1.25										
920	6250	2.88	0.35	2,800	2.25	2,180	1.55	1,080	0.84								
955	6500	3.11	0.39	2,930	2.50			1,440	1.15								
990	6750	3.35	0.44	3,120	2.90			1,770	1.45								
1030	7000	3.61	0.49	3,220	3.25			2,020	1.80								
1065	7250	3.87	0.54	3,360	3.65			2,300	2.15	1,300	1.35						
1100	7500	4.14	0.60	3,510	4.1			2,520	2.5	1,660	1.75						
1140	7750	4.42	0.66	3,630	4.5			2,750	2.9	1,960	2.10						
1175	8000	4.71	0.73	3,760	5.0					2,250	2.50	1,250	1.65				
1210	8250	5.00	0.80	3,900	5.5					2,510	2.95	1,680	2.15				
1250	8500	5.31	0.87	4,070	6.1					2,740	3.45	1,990	2.65				
1285	8750	5.63	0.96	4,180	6.7					3,020	4.00	2,300	3.20	1,350	2.20		
1320	9000	5.94	1.05	4,310	7.2					3,200	4.55	2,560	3.75	1,750	2.70		
1360	9250	6.28	1.15	4,430	7.9							2,830	4.35	2,100	3.30		
1390	9500	6.63	1.20	4,570	8.7							3,060	4.9	2,400	3.95	1,540	2.90
1430	9750	6.97	1.30	4,690	9.5							3,300	5.6	2,680	4.6	2,000	3.55
1470	10000	7.35	1.45	4,830	10.5							3,540	5.2	2,970	5.3	2,290	4.25
1510	10250	7.72	1.55	4,960	11.0									3,200	6.0	2,590	5.0
1540	10500	8.11	1.65	5,080	12.5									3,470	6.8	2,870	5.7
1580	10750	8.49	1.75	5,230	13.0									3,690	7.5	3,140	6.5
1620	11000	8.90	1.90	5,340	14.5									3,910	8.4	3,400	7.4
1650	11250	9.30	2.00	5,480	15.5											3,630	8.1
1690	11500	9.72	2.15	5,610	16.5											3,880	9.1
1730	11750	10.2	2.30	5,770	17.5											4,110	10

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch		Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.51 ozs. per sq. inch		Static Pressure 14″ Water 8.09 ozs. per sq. inch	
1470	10000	7.35	1.45	1,280	2.80												
1510	10250	7.72	1.55	1,830	3.75												
1540	10500	8.11	1.65	2,200	4.55												
1580	10750	8.49	1.75	2,550	5.3	1,710	4.0										
1620	11000	8.90	1.90	2,830	6.3	2,120	4.9										
1650	11250	9.30	2.00	3,160	7.1	2,470	5.8	1,630	4.4								
1690	11500	9.72	2.15	3,370	8.0	2,780	6.8	2,100	5.4								
1730	11750	10.2	2.30	3,630	8.9	3,100	7.8	2,470	6.4	1,600	4.75						
1760	12000	10.6	2.45	3,870	9.9	3,380	8.8	2,810	7.5	2,110	6.0						
1840	12500	11.5	2.80	4,360	11.5	3,850	10.5	3,370	9.6	2,850	8.1	2,150	6.7				
1910	13000	12.4	3.10	4,800	13.5	4,340	12.5	3,920	12.0	3,460	10.5	2,880	9.1	2,230	7.5		
1980	13500	13.4	3.50			4,780	15	4,400	14.5	3,990	13.0	3,490	11.5	2,950	10.0	2,320	8.4
2060	14000	14.4	3.90					4,870	17	4,450	15.5	4,040	14.5	3,570	13.0	3,030	11.0
2130	14500	15.5	4.35							4,930	18.5	4,540	17.5	4,130	15.5	3,660	14.0
2200	15000	16.5	4.8							5,370	21	5,020	20.5	4,650	19	4,230	17.0
2280	15500	17.7	5.3									5,500	23.5	5,100	22	4,740	20.5
2360	16000	18.8	5.8											5,590	25	5,200	24
2420	16500	20.0	6.4											6,030	28	5,690	27
2500	17000	21.3	7													6,160	31

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15″ Water 8.66 ozs. per sq. inch		Static Pressure 16″ Water 9.25 ozs. per sq. inch		Static Pressure 17″ Water 9.82 ozs. per sq. inch		Static Pressure 18″ Water 10.4 ozs. per sq. inch		Static Pressure 19″ Water 11.0 ozs. per sq. inch		Static Pressure 20″ Water 11.6 ozs. per sq. inch		Static Pressure 21″ Water 12.1 ozs. per sq. inch	
2060	14000	14.4	3.90	2,410	9.4												
2130	14500	15.5	4.35	3,160	12.5	2,580	10.5										
2200	15000	16.5	4.8	3,780	15.5	3,350	14.0	2,730	12.0								
2280	15500	17.7	5.3	4,370	19.0	3,950	17.5	3,500	15.5	2,870	14	2,230	11.5				
2360	16000	18.8	5.8	4,870	22.5	4,500	21	4,070	19	3,600	17	3,110	15.0	2,510	13.0		
2420	16500	20.0	6.4	5,370	26	4,990	24	4,650	23	4,210	21	3,800	19.0	3,420	17.0	2,760	15.0
2500	17000	21.3	7.0	5,840	30	5,500	28	5,190	27	4,810	25	4,430	23.5	4,070	21.5	3,610	19.5
2570	17500	22.5	7.6	6,300	34	5,970	32	5,630	31	5,300	29	4,960	27	4,640	26	4,260	23.5
2640	18000	23.8	8.3			6,400	36	6,100	35	5,790	33	5,460	32	5,140	30	4,830	28
2720	18500	25.2	9.0					6,560	39	6,300	38	5,930	36	5,650	35	5,310	32
2780	19000	26.6	9.8							6,720	43	6,430	41	6,150	39	5,810	37
2800	19500	28.0	10.5									6,890	46	6,610	45	6,300	42
2940	20000	29.4	11.5											7,060	50	6,790	48
3020	20500	30.9	12											7,490	54	7,240	54

Double Inlet

No. 6 Steel Pressure Blower — Design 2 — Cont'd

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15 ozs. per sq. inch		Static Pressure 27 Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
2500	17000	21.3	7.0	3,040	17.0	2,380	11.5										
2570	17500	22.5	7.6	3,820	21.5	3,260	19	2,700	17								
2640	18000	23.8	8.3	4,410	26	4,030	24	3,600	22	2,980	19.5						
2720	18500	25.2	9.0	5,000	31	4,610	29	4,220	27	3,840	24.5	3,330	22	2,740	19.5		
2780	19000	26.6	9.8	5,550	36	5,180	34	4,850	32	4,480	29	4,090	27	3,620	25	3,130	22.5
2860	19500	28.0	10.5	6,040	41	5,700	39	5,390	37	5,080	34	4,700	32	4,330	31	3,940	28
2940	20000	29.4	11.5	6,520	46	6,210	44	5,910	42	5,600	40	5,360	38	4,920	36	4,500	34
3020	20500	30.9	12	7,010	52	6,700	50	6,370	48	6,000	46	5,780	44	5,440	42	5,200	40
3080	21000	32.4	13	7,430	58	7,160	56	6,880	54	6,610	52	6,300	50	6,030	48	5,720	46
3160	21500	34.0	14			7,600	62	7,380	60	7,100	58	6,850	56	6,500	54	6,220	52
3240	22000	35.6	15					7,810	66	7,560	64	7,350	64	6,970	62	6,720	60
3300	22500	37.2	16							8,020	70	7,800	70	7,460	68	7,200	66

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq.inch		Static Pressure 30" Water 17.3 per ozs. sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pessure 35" Water 20.3 ozs. per sq. inch	
2780	19000	26.6	9.8	2,170	18												
2860	19500	28.0	10.5	3,480	26	2,840	22.5										
2940	20000	29.4	11.5	4,170	31	3,740	29	3,230	26	2,400	22.5						
3020	20500	30.9	12	4,820	37	4,400	35	4,080	33	3,670	30	3,000	27				
3080	21000	32.4	13	5,420	44	5,060	41	4,740	39	4,370	36	3,950	34	3,510	31	2,840	27
3160	21500	34.0	14	6,110	52	5,640	48	5,340	45	5,030	43	4,700	41	4,320	38	3,910	35
3240	22000	35.6	15	6,520	56	6,230	54	5,930	52	5,630	50	5,300	47	4,970	45	4,630	42
3300	22500	37.2	16	7,000	64	6,700	62	6,460	58	6,160	56	5,880	54	5,570	52	5,250	49

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
3160	21500	34.0	14	3,440	32	2,690	28										
3240	22000	35.6	15	4,240	39	3,860	37	3,360	34								
3300	22500	37.2	16	4,940	47	4,600	44	4,200	41								

Double Inlet

No. 7 Steel Pressure Blower—Design 2

Single Width

When Discharging Air ar 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
620	5000	1.84	0.230	2,610	1.20	857	0.47										
650	5250	2.03	0.270	2,840	1.45	1,450	0.75										
685	5500	2.25	0.310	3,050	1.86	1,890	1.05										
715	5750	2.43	0.350	3,250	2.15	2,200	1.3										
745	6000	2.65	0.400	3,460	2.55	2,530	1.6										
775	6250	2.88	0.455	3,660	2.95	2,850	2	1,420	1.10								
810	6500	3.11	0.51	3,840	3.30			1,880	1.50								
840	6750	3.35	0.57	4,080	3.80			2,310	1.90								
870	7000	3.61	0.64	4,210	4.25			2,650	2.35								
900	7250	3.87	0.71	4,400	4.75			3,010	2.8	1,700	1.75						
930	7500	4.14	0.79	4,590	5.4			3,290	3.3	2,170	2.25						
960	7750	4.42	0.87	4,760	5.9			3,600	3.8	2,570	2.74						
995	8000	4.71	0.96	4,920	6.8					2,940	3.25	1,630	2.15				
1025	8250	5.00	1.05	5,100	7.2					3,270	3.85	2,190	2.80				
1055	8500	5.31	1.15	5,300	8.0					3,590	4.5	2,600	3.45				
1085	8750	5.63	1.25	5,470	8.9					3,950	5.3	3,010	4.2	1,760	2.90		
1120	9000	5.94	1.35	5,640	9.5					4,180	6	3,360	4.9	2,290	3.55		
1150	9250	6.28	1.45	5,810	10.5							3,700	5.7	2,740	4.35		
1180	9500	6.63	1.60	5,980	11.5							4,010	6.4	3,140	5.2	2,020	3.80
1210	9750	6.97	1.75	6,100	12.5							4,330	7.3	3,510	6.0	2,610	4.65
1240	10000	7.35	1.85	6,320	13.5							4,630	8.1	3,890	7.0	2,990	5.6
1275	10250	7.72	2.00	6,500	14.5									4,200	7.9	3,390	6.5
1300	10500	8.11	2.15	6,670	16.0									4,530	8.9	3,760	7.5
1335	10750	8.49	2.30	6,850	17.0									4,820	9.8	4,100	8.5
1370	11000	8.90	2.50	7,000	18.5									5,120	11	4,460	9.7
1400	11250	9.30	2.65	7,180	20.0											4,750	10.5
1430	11500	9.72	2.85	7,340	21.5											5,080	12
1460	11750	10.2	3	7,550	23											5,370	13

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water; 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1240	10000	7.35	1.85	1,670	3.7												
1275	10250	7.72	2.00	2,390	4.9												
1300	10500	8.11	2.15	2,870	6.0												
1335	10750	8.49	2.30	3,330	6.9	2,230	5.3										
1370	11000	8.90	2.50	3,700	8.2	2,780	6.4										
1400	11250	9.30	2.65	4,130	9.3	3,230	7.6	2,130	5.7								
1430	11500	9.72	2.85	4,410	10.5	3,640	8.9	2,750	7.1								
1460	11750	10.2	3.00	4,740	11.5	4,050	10.0	3,230	8.4	2,090	6.2						
1490	12000	10.6	3.20	5,070	13.0	4,420	11.5	3,680	9.8	2,760	7.9						
1550	12500	11.5	3.65	5,700	15.5	5,030	14.0	4,410	12.5	3,740	10.5	2,810	8.8				
1620	13000	12.4	4.10	6,270	18	5,670	16.5	5,110	15.5	4,520	14	3,760	12.0	2,910	9.8		
1680	13500	13.4	4.55			6,260	19.5	5,760	18.5	5,220	17	4,570	15.0	3,860	13.0	3,030	11.0
1740	14000	14.4	5.1					6,380	22	5,820	20	5,280	18.5	4,670	16.5	3,960	14.5
1800	14500	15.5	5.7							6,450	24	5,940	22.5	5,400	20.5	4,780	18.5
1860	15000	16.5	6.3							7,030	28	6,570	27	6,090	24.5	5,530	22.5
1920	15500	17.7	6.9									7,200	30	6,670	29	6,200	27
1990	16000	18.8	7.6											7,310	33	6,810	31
2050	16500	20.0	8.4											7,890	37	7,450	35
2110	17000	21.3	9.2													8,050	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.83 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1740	14000	14.4	5.1	3,160	12.5												
1800	14500	15.5	5.7	4,130	16.0	3,380	14										
1860	15000	16.5	6.3	4,950	20.5	4,380	18	3,570	15.5								
1920	15500	17.7	6.9	5,720	25	5,170	23	4,570	20	3,750	18.0	2,920	15				
1990	16000	18.8	7.6	6,370	29	5,800	27	5,330	25	4,710	22.5	4,070	20	3,280	17.0		
2050	16500	20.0	8.4	7,030	34	6,530	32	6,080	30	5,510	27	4,980	25	4,470	22.5	3,600	19.5
2110	17000	21.3	9.2	7,640	39	7,200	37	6,790	35	6,290	33	5,800	31	5,330	28	4,720	25
2170	17500	22.5	10	8,240	44	7,810	42	7,370	40	6,950	38	6,490	36	6,070	34	5,560	31
2240	18000	23.8	11			8,370	47	7,980	45	7,570	43	7,150	41	6,710	39	6,310	37
2300	18500	25.2	12					8,600	52	8,240	50	7,750	47	7,400	45	6,950	42
2360	19000	26.6	13							8,800	56	8,400	54	8,040	52	7,600	48
2420	19500	28.0	14									9,040	60	8,650	58	8,250	56
2480	20000	29.4	15											9,250	66	8,880	62
2550	20500	30.9	16											9,790	72	9,480	70

Double Inlet No. 7 Steel Pressure Blower—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
2110	17000	21.3	9.2	3,980	22.5	3,120	19.5										
2170	17500	22.5	10.0	5,000	28	4,200	25	3,540	22								
2240	18000	23.8	11.0	5,810	34	5,280	31	4,720	29	3,900	25						
2300	18500	25.2	12 0	6,540	40	6,040	38	5,530	35	5,020	32	4,350	29	3,590	26		
2360	19000	26.6	13.0	7,250	47	6,790	44	6,350	42	5,860	38	5,350	35	4,740	33	4,100	30
2420	19500	28.0	14.0	7,900	54	7,480	52	7,060	49	6,640	45	6,150	42	5,660	40	5,150	37
2480	20000	29.4	15.0	8,530	60	8,150	58	7,730	56	7,320	52	7,020	50	6,430	47	6,000	45
2550	20500	30.9	16.0	9,170	68	8,760	66	8,340	64	7,960	60	7,550	58	7,120	56	6,800	52
2600	21000	32.4	17.0	9,720	76	9,380	72	9,000	70	8,650	68	8,230	66	7,900	62	7,500	60
2670	21500	34.0	18.5			9,960	80	9,660	78	9,300	76	8,950	74	8,520	72	8,150	68
2740	22000	35.6	20					10,200	86	9,900	84	9,610	82	9,130	80	8,800	78
2800	22500	37 2	21							10,500	92	10,200	92	9,780	88	9,520	86

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30' Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.3 ozs. per sq. inch	
2360	19000	26.6	13 0	2,850	24												
2420	19500	28.0	14 0	4,560	34	3,710	30										
2480	20000	29.4	15.0	5,460	41	4,900	38	4,280	34	3,270	29						
2550	20500	30.9	16 0	6,320	49	5,830	46	5,340	43	4,810	40	4,040	35				
2600	21000	32.4	17 0	7,100	58	6,630	54	6,210	50	5,720	48	5,170	44	4,600	41	3,720	36
2670	21500	34.0	18 5	8,010	68	7,400	62	7,000	60	6,580	56	6,140	54	5,040	50	5,720	46
2740	22000	35.6	20	8,550	74	8,170	72	7,760	68	7,380	66	6,950	62	6,510	58	6,080	56
2800	22500	37.2	21	9,170	82	8,850	80	8,460	78	8,060	74	7,710	72	7,270	68	6,860	64

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 0" Water 00.0 ozs. per sq. inch		Static Pressure 0" Water 00.0 ozs. per sq. inch		Static Pressure 0' Water 00.0 ozs. per sq. inch		Static Pressure 0" Water 00. ozs. per sq. inch	
2670	21500	34.0	18.5	4,510	42	3,530	37										
2740	22000	35.6	20	5,550	52	5,050	48	4,350	44								
2800	22500	37.2	21	6,460	62	6,030	58	5,500	54								

Double Inlet

No. 8 Steel Pressure Blower—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
530	5000	1.84	0.320	3,620	1.65	1,190	0.66										
560	5250	2.03	0.375	3,940	2.05	2,010	1.05										
585	5500	2.25	0.430	4,240	2.50	2,620	1.45										
610	5750	2.43	0.485	4,520	3.00	3,050	1.80										
635	6000	2.65	0.56	4,810	3.50	3,520	2.25										
665	6250	2.88	0.63	5,080	4.05	3,960	2.8	1,970	1.55								
690	6500	3.11	0.71	5,340	4.6			2,610	2.05								
715	6750	3.35	0.80	5,650	5.3			3,210	2.65								
745	7000	3.61	0.89	5,850	5.9			3,680	3.25								
770	7250	3.87	0.99	6,120	6.6			4,170	3.90	2,360	2.45						
795	7500	4.14	1.10	6,380	7.4			4,580	4.55	3,020	3.15						
820	7750	4.42	1.20	6,610	8.2			5,000	5.3	3,560	3.80						
850	8000	4.71	1.35	6,840	9.1					4,080	4.55	2,270	2.95				
875	8250	5.00	1.45	7,100	10.0					4,550	5.3	3,040	3.90				
900	8500	5.31	1.60	7,320	11.0					4,980	6.2	3,610	4.80				
930	8750	5.63	1.75	7,590	12.0					5,490	7.3	4,180	5.85	2,150	4.0		
955	9000	5.94	1.90	7,840	13.0					5,810	8.3	4,660	6.8	3,190	4.9		
980	9250	6.28	2.05	8,070	14.5							5,140	7.9	3,820	6.0		
1010	9500	6.63	2.20	8,310	15.5							5,570	8.9	4,370	7.2	2,810	5.3
1035	9750	6.97	2.40	8,550	17.0							6,010	10.0	4,880	8.4	3,630	6.5
1060	10000	7.35	2.60	8,780	19.0							6,430	11.5	5,400	9.7	4,160	7.7
1090	10250	7.72	2.80	9,020	20.5									5,830	11.0	4,710	9.0
1120	10500	8.11	3.00	9,260	22.0									6,300	12.5	5,220	10.5
1140	10750	8.49	3.20	9,500	24.0									6,700	13.5	5,700	12.0
1170	11000	8.90	3.45	9,750	26.0									7,110	15	6,190	13.5
1190	11250	9.30	3.70	10,000	28.0											6,600	15.0
1220	11500	9.72	3.95	10,200	29.5											7,050	16.5
1250	11750	10.2	4.2	10,500	32											7,470	18

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1060	10000	7.35	2.60	2,320	5.1												
1090	10250	7.72	2.80	3,320	6.8												
1120	10500	8.11	3.00	4,000	8.3												
1140	10750	8.49	3.20	4,640	9.6	3,100	7.3										
1170	11000	8.90	3.45	5,150	11.5	3,860	8.9										
1190	11250	9.30	3.70	5,740	13.0	4,490	10.5	2,960	7.9								
1220	11500	9.72	3.95	6,130	14.5	5,060	12.5	3,820	9.8								
1250	11750	10.2	4.20	6,590	16	5,620	14	4,490	11.5	2,900	8.7						
1270	12000	10.6	4.45	7,030	18	6,150	16	5,100	13.5	3,840	11.0						
1330	12500	11.5	5.0	7,920	21	7,000	19	6,130	17.5	5,190	15.0	3,910	12.0				
1380	13000	12.4	5.7	8,720	25	7,890	23	7,110	21.5	6,290	19.0	5,230	16.5	4,050	13.5		
1430	13500	13.4	6.3			8,700	27	8,000	26	7,250	23.5	6,350	21	5,370	18	4,220	15.5
1490	14000	14.4	7.1					8,860	31	8,090	28	7,340	26	6,500	23	5,500	20
1540	14500	15.5	7.9							8,960	33	8,250	31	7,500	28	6,650	26
1590	15000	16.5	8.7							9,760	38	9,130	37	8,460	31	7,700	31
1640	15500	17.7	9.6									10,000	42	9,260	40	8,620	37
1700	16000	18.8	10.5											10,200	46	9,460	43
1750	16500	20.0	11.5											11,000	52	10,300	49
1800	17000	21.3	12.5													11,200	56

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1490	14000	14.4	7.1	4,390	17.0												
1540	14500	15.5	7.9	5,740	22.5	4,700	19.5										
1590	15000	16.5	8.7	6,880	28	6,090	25	4,970	22								
1640	15500	17.7	9.6	7,950	35	7,180	32	6,350	28	5,220	25	4,050	20.5				
1700	16000	18.8	10.5	8,850	40	8,180	38	7,410	35	6,550	31	5,650	28	4,560	24		
1750	16500	20.0	11.5	9,760	47	9,070	44	8,450	42	7,660	38	6,910	35	6,210	31	5,010	27
1800	17000	21.3	12.5	10,600	54	10,000	52	9,430	49	8,740	46	8,050	43	7,410	39	6,550	35
1860	17500	22.5	14.0	11,400	60	10,900	58	10,200	56	9,650	52	9,020	50	8,440	47	7,730	43
1910	18000	23.8	15.0			11,600	66	11,100	64	10,500	60	9,950	58	9,320	54	8,790	50
1960	18500	25.2	16.5					11,900	72	11,500	70	10,800	66	10,300	64	9,660	58
2020	19000	26.6	18.0							12,200	78	11,700	76	11,200	72	10,600	68
2070	19500	28.0	19.0									12,600	84	12,000	82	11,500	78
2120	20000	29.4	20.5											12,800	90	12,300	88
2180	20500	30.9	22											13,600	100	13,200	98

Double Inlet No. 8 Steel Pressure Blower — Design 2 — Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
1800	17000	21 3	12 5	5,520	31	4,340	27										
1860	17500	22 5	14 0	6,950	39	5,930	35	4,900	31								
1910	18000	23 8	15 0	8,070	47	7,340	44	6,560	40	5,420	35						
1960	18500	25 2	16 5	9,070	56	8,390	52	7,680	49	6,970	44	6,050	40	4,980	36		
2020	19000	26 6	18 0	10,000	66	9,140	62	8,820	58	8,150	54	7,440	49	6,600	46	5,700	41
2070	19500	28 0	19 0	11,000	74	10,400	72	9,800	68	9,230	62	8,550	58	7,870	56	7,150	52
2120	20000	29 4	20 5	11,800	84	11,300	80	10,700	78	10,200	74	9,700	70	8,950	66	8,350	62
2180	20500	30 9	22	12,700	94	12,200	90	11,600	88	11,100	84	10,500	80	9,900	78	9,450	72
2240	21000	32 4	24	13,500	105	13,000	100	12,500	98	12,000	94	11,400	92	11,000	88	10,400	84
2280	21500	34 0	26			13,800	110	13,400	110	12,900	105	12,400	105	11,800	98	11,300	94
2340	22000	35 6	28					14,200	120	13,800	115	13,400	115	12,700	110	12,200	110
2380	22500	37 2	29							14,600	130	14,200	125	13,600	125	13,200	120

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.3 ozs. per sq. inch	
2020	19000	26 6	18 0	3,960	33												
2070	19500	28 0	19 0	6,270	48	5,220	41										
2120	20000	29 4	20 5	7,590	58	6,820	52	5,950	48	4,550	41						
2180	20500	30 9	22	8,770	68	8,120	64	7,430	60	6,680	56	5,620	49				
2240	21000	32 4	24	9,900	80	9,220	74	8,620	70	7,950	66	7,190	62	6,390	56	5,170	49
2280	21500	34 0	26	11,200	96	10,300	86	9,700	82	9,150	78	8,550	74	7,850	68	7,110	64
2340	22000	35 6	28	11,900	105	11,400	100	10,800	94	10,300	90	9,650	86	9,050	82	8,450	76
2380	22500	37 2	29	12,800	115	12,300	110	11,800	105	11,200	100	10,700	98	10,100	94	9,570	90

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch		Static Pressure 00' Water 00.0 ozs. per sq. inch		Static Pressure 00" Water 00.0 ozs. per sq. inch		Static Pressure 0" Water 00.0 ozs. per sq. inch	
2280	21500	34 0	26	6,270	58	4,910	50										
2340	22000	35 6	28	7,720	72	7,030	68	6,100	62								
2380	22500	37 2	29	9,000	84	8,370	80	7,650	76								

Double Inlet

No. 9 Steel Pressure Blower—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
475	5000	1.84	0.425	4,740	2.15	1,560	0.86										
500	5250	2.03	0.49	5,110	2.70	2,640	1.35										
525	5500	2.25	0.56	5,550	3.25	3,430	1.90										
550	5750	2.43	0.63	5,910	3.90	4,020	2.35										
570	6000	2.65	0.73	6,290	4.60	4,600	2.95										
595	6250	2.88	0.83	6,610	5.3	5,170	3.65	2,580	2.00								
620	6500	3.11	0.93	6,980	6.0			3,420	2.70								
645	6750	3.35	1.05	7,360	6.9			4,210	3.45								
665	7000	3.61	1.15	7,650	7.7			4,820	4.25								
690	7250	3.87	1.30	8,000	8.0			5,470	5.1	3,100	3.20						
715	7500	4.14	1.45	8,340	9.7			6,000	6.0	3,950	4.15						
740	7750	4.42	1.60	8,650	11.0			6,530	6.9	4,670	5.0						
760	8000	4.71	1.75	8,940	12.0					5,350	6.0	2,970	3.9				
785	8250	5.00	1.90	9,280	13.0					5,960	7.0	3,980	5.1				
810	8500	5.31	2.10	9,580	14.5					6,520	8.2	4,730	6.3				
835	8750	5.63	2.30	9,940	16.0					7,180	9.6	5,470	7.7	3,210	5.3		
860	9000	5.94	2.50	10,300	17.0					7,600	11	6,100	8.9	4,170	6.5		
880	9250	6.28	2.70	10,600	18.5							6,720	10.5	5,000	7.9		
905	9500	6.63	2.90	10,900	20.5							7,300	11.5	5,720	9.4	3,680	6.9
930	9750	6.97	3.15	11,200	22.5							7,880	13	6,400	11.0	4,750	8.5
950	10000	7.35	3.40	11,500	24.5							8,430	15	7,070	12.5	5,450	10.0
980	10250	7.72	3.65	11,800	27									7,650	14.5	6,160	12.0
1000	10500	8.11	3.9	12,100	29									8,270	16	6,830	13.5
1025	10750	8.49	4.2	12,500	31									8,780	18	7,460	15.5
1050	11000	8.90	4.5	12,700	34									9,320	20	8,100	17.5
1070	11250	9.30	4.8	13,100	36											8,650	19.5
1100	11500	9.72	5.2	13,400	39											9,250	21.5
1120	11750	10.2	5.5	13,800	42											9,780	24

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 oz. per sq. inch		Static Pressure 11" Water 6.36 oz. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
950	10000	7.35	3.40	3,040	6.7												
980	10250	7.72	3.65	4,350	9.0												
1000	10500	8.11	3.9	5,220	11.0												
1025	10750	8.49	4.2	6,070	12.5	4,060	9.6										
1050	11000	8.90	4.5	6,730	15.0	5,050	11.5										
1070	11250	9.30	4.8	7,510	17.0	5,880	14.0	3,880	10.5								
1100	11500	9.72	5.2	8,020	19.0	6,620	16.0	4,990	13.0								
1120	11750	10.2	5.5	8,620	21.0	7,360	18.5	5,880	15.5	3,800	11.5						
1140	12000	10.6	5.9	9,200	23.5	8,050	21	6,690	18.0	5,030	14.5						
1190	12500	11.5	6.6	10,400	28	9,170	25	8,040	22.5	6,800	19.5	5,130	16.0				
1240	13000	12.4	7.4	11,400	33	10,300	30	9,300	28	8,240	25	6,850	21.5	5,300	18		
1290	13500	13.4	8.3			11,400	36	10,500	34	9,500	31	8,310	28	7,030	24	5,530	20
1330	14000	14.4	9.3					11,600	40	10,600	37	9,610	34	8,500	30	7,200	26
1380	14500	15.5	10.5							11,700	43	10,800	41	9,820	37	8,700	33
1430	15000	16.5	11.5							12,800	50	11,900	48	11,100	45	10,100	41
1480	15500	17.7	12.5									13,100	56	12,100	52	11,300	48
1520	16000	18.8	14.0											13,300	60	12,400	56
1570	16500	20.0	15.0											14,300	68	13,500	64
1620	17000	21.3	16.5													14,700	72

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.83 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1330	14000	14.4	9.3	5,740	22.5												
1380	14500	15.5	10.5	7,510	30	6,140	25										
1430	15000	16.5	11.5	9,000	37	7,960	33	6,500	28								
1480	15500	17.7	12.5	10,400	45	9,400	41	8,300	37	6,830	33	5,300	27				
1520	16000	18.8	14.0	11,600	54	10,700	50	9,700	45	8,570	41	7,400	36	5,970	31		
1570	16500	20.0	15.0	12,800	62	11,900	58	11,100	54	10,000	50	9,050	46	8,140	41	6,560	36
1620	17000	21.3	16.5	13,900	72	13,100	68	12,300	64	11,400	60	10,500	56	9,700	52	8,590	46
1670	17500	22.5	18.0	15,000	80	14,200	76	13,400	72	12,600	70	11,800	66	11,100	62	10,100	56
1720	18000	23.8	20.0			15,200	86	15,400	82	13,800	78	13,000	76	12,200	72	11,500	66
1760	18500	25.2	21.5					15,600	94	15,000	90	14,100	86	13,500	82	12,700	76
1810	19000	26.6	23							16,000	100	15,300	98	14,600	94	13,800	88
1860	19500	28.0	25									16,400	110	15,700	105	15,000	100
1900	20000	29.4	27											16,800	120	16,200	115
1960	20500	30.9	29											17,800	130	17,200	130

Double Inlet No. 9 Steel Pressure Blower — Design 2 — Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
1620	17000	21 3	16 5	7,240	41	5,670	35										
1670	17500	22 5	18 0	9,100	52	7,750	46	6,420	41								
1720	18000	23 8	20 0	10,600	62	9,600	58	8,590	52	7,100	46						
1760	18500	25 2	21 5	11,900	74	11,000	68	10,000	64	9,130	58	7,930	52	6,530	47		
1810	19000	26 6	23	13,200	86	12,300	80	11,500	76	10,700	70	9,750	64	8,640	60	7,450	54
1860	19500	28 0	25	14,400	98	13,600	92	12,800	88	12,100	82	11,200	76	10,300	74	9,360	68
1900	20000	29 4	27	15,500	110	14,800	105	14,100	100	13,300	96	12,800	90	11,700	86	10,900	80
1960	20500	30 9	29	16,700	125	15,900	120	15,200	115	14,500	110	13,800	105	12,900	100	12,400	96
2000	21000	32 4	31	17,700	135	17,100	130	16,400	130	15,700	125	15,000	120	14,400	115	13,600	110
2050	21500	34 0	34			18,100	145	17,600	145	16,900	140	16,300	135	15,500	130	14,800	125
2100	22000	35.6	36					18,600	155	18,000	155	17,500	150	16,000	145	16,000	140
2140	22500	37 2	39							19,100	170	18,600	165	17,800	160	17,300	155

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.3 ozs. per sq. inch	
1810	19000	26 6	23	5,180	43												
1860	19500	28 0	25	8,200	62	6,820	54										
1900	20000	29 4	27	9,920	74	8,900	68	7,750	62	5,940	54						
1960	20500	30 9	29	11,500	90	10,600	84	9,730	78	8,730	72	7,360	64				
2000	21000	32 4	31	12,900	105	12,000	98	11,300	92	10,400	86	9,400	80	8,360	74	6,780	64
2050	21500	34 0	34	14,600	125	13,400	115	12,700	105	12,000	100	11,200	96	10,300	90	9,320	84
2100	22000	35 6	36	15,600	135	14,800	130	14,100	125	13,400	120	12,600	110	11,800	105	11,000	100
2140	22500	37 2	39	16,700	150	16,100	145	15,400	140	14,600	135	14,000	130	13,200	120	12,500	115

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch		Static Pressure 0" Water 0.0 ozs. per sq. inch	
2050	21500	34 0	34	8,190	76	6,420	66										
2100	22000	35.6	36	10,100	94	9,200	88	7,900	80								
2140	22500	37.2	39	11,800	110	11,000	105	10,000	98								

Double Inlet No. 10 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 2" Water 1.16 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 3" Water 1.73 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 4" Water 2.31 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 5" Water 2.89 ozs. per sq. inch Volume C.F.M.	H. P.	Static Pressure 6" Water 3.47 ozs. per sq. inch Volume C.F.M.	H.P.	Static Pressure 7" Water 4.05 ozs. per Sq. inch Volume C.F.M.	H. P.
400	5000	1.84	0.60	6,670	3.05	2,200	1.20										
420	5250	2.03	0.69	7,240	3.75	3,720	1.95										
440	5500	2.25	0.79	7,800	4.6	4,830	2.70										
460	5750	2.43	0.89	8,310	5.5	5,630	3.35										
480	6000	2.65	1.05	8,850	6.5	6,490	4.15										
500	6250	2.88	1.15	9,350	7.5	7,290	5.1	3,620	2.80								
520	6500	3.11	1.30	9,830	8.5			4,810	3.80								
540	6750	3.35	1.45	10,400	9.8			5,920	4.85								
555	7000	3.61	1.65	10,800	11.0			6,780	6.0								
575	7250	3.87	1.80	11,300	12.0			7,700	7.2	4,350	4.5						
595	7500	4.14	2.00	11,700	14.0			8,440	8.1	5,560	5.8						
615	7750	4.42	2.20	12,200	15.0			9,220	9.7	6,560	7.0						
635	8000	4.71	2.45	12,600	17.0					7,530	8.4	4,180	5.5				
655	8250	5.00	2.70	13,100	18.5					8,380	9.9	5,610	7.2				
675	8500	5.31	2.95	13,500	20.5					9,190	11.5	6,650	8.9				
695	8750	5.63	3.2	14,000	22.5					10,100	13.5	7,700	11.0	4,510	7.4		
715	9000	5.94	3.5	14,400	24					10,700	15	8,600	12.5	5,880	9.1		
735	9250	6.28	3.8	14,800	26							9,480	14.5	7,030	11.0		
755	9500	6.63	4.1	15,300	29							10,300	16.5	8,050	13.5	5,180	9.8
775	9750	6.97	4.4	15,800	32							11,100	18.5	9,000	15.5	6,700	12.0
800	10000	7.35	4.8	16,200	35							11,900	21	9,950	18	7,670	14.0
815	10250	7.72	5.1	16,600	37									10,800	20	8,700	16.5
840	10500	8.11	5.5	17,100	41									11,600	23	9,620	19
860	10750	8.49	5.9	17,500	44									12,400	25	10,500	22
880	11000	8.90	6.1	17,900	47									13,100	28	11,100	25
900	11250	9.30	6.8	18,400	51											12,200	27
920	11500	9.72	7.3	18,800	55											13,000	30
940	11750	10.2	7.7	19,400	59											13,800	34

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
800	10000	7.35	4.8	4,270	9.5												
815	10250	7.72	5.1	6,120	12.5												
840	10500	8.11	5.5	7,360	15.5												
860	10750	8.49	5.9	8,550	18.0	5,720	13.5										
880	11000	8.90	6.1	9,480	21.0	7,120	16.5										
900	11250	9.30	6.8	10,600	23.5	8,280	19.5	5,460	14.5								
920	11500	9.72	7.3	11,300	27	9,320	22.5	7,040	18.0								
940	11750	10.2	7.7	12,100	30	10,400	26	8,280	21.5	5,350	16						
960	12000	10.6	8.3	13,000	33	11,300	30	9,410	25	7,080	20						
1000	12500	11.5	9.3	14,600	39	12,900	35	11,300	32	9,560	27	7,200	22.5				
1040	13000	12.4	10.5	16,100	46	14,500	43	13,100	40	11,600	35	9,640	30	7,160	25		
1080	13500	13.4	11.5			16,000	50	14,800	48	13,400	43	11,700	39	9,890	34	7,780	28
1110	14000	14.4	13.0					16,300	56	14,900	52	13,500	48	12,000	43	10,100	37
1150	14500	15.5	14.5							16,500	62	15,200	58	13,800	52	12,300	47
1190	15000	16.5	16.0							18,000	70	16,800	68	15,600	65	14,200	58
1230	15500	17.7	18.0									18,400	78	17,100	71	15,900	68
1270	16000	18.8	19.5											18,700	84	17,400	80
1310	16500	20.0	21.5											20,200	96	19,000	90
1360	17000	21.3	23.5													20,600	105

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1110	14000	14.4	13.0	8,080	31												
1150	14500	15.5	14.5	10,600	42	8,650	36										
1190	15000	16.5	16.0	12,700	52	11,200	46	9,150	40								
1230	15500	17.7	18.0	14,600	64	13,200	58	11,700	52	9,620	47	7,450	38				
1270	16000	18.8	19.5	16,300	74	15,100	70	13,600	64	12,100	58	10,400	50	8,400	44		
1310	16500	20.0	21.5	18,000	88	16,700	82	15,600	76	14,100	70	12,800	64	11,500	58	9,230	50
1360	17000	21.3	23.5	19,600	100	18,500	94	17,400	90	16,100	84	14,900	78	13,600	72	12,100	66
1390	17500	22.5	26	21,100	110	20,000	105	18,900	100	17,800	98	16,600	92	15,600	86	14,200	78
1430	18000	23.8	28			21,400	120	20,400	115	19,400	110	18,300	105	17,200	100	16,100	94
1470	18500	25.2	30					22,000	130	21,100	130	19,900	120	19,000	115	17,800	105
1510	19000	26.6	33							22,600	145	21,600	140	20,600	130	19,500	125
1550	19500	28.0	35									23,200	155	22,200	150	21,100	140
1600	20000	29.4	38											23,700	165	22,700	160
1630	20500	30.9	41											25,100	185	24,300	180

Double Inlet No. 10 Steel Pressure Blower—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.4 ozs. per sq. inch		Static Pressure 26" Water 15 ozs. per sq. inch		Static Pressure 27 Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
1360	17000	21.3	23.5	10,200	58	7,980	49										
1390	17500	22.5	26	12,800	72	10,900	64	9,050	58								
1430	18000	23.8	28	14,900	86	13,500	80	12,100	74	9,990	64						
1470	18500	25.2	30	16,700	105	15,500	96	14,200	90	12,900	82	11,200	74	9,200	66		
1510	19000	26.6	33	18,600	120	17,400	115	16,300	105	15,000	98	13,700	90	12,100	84	10,500	76
1550	19500	28.0	35	20,200	140	19,200	130	18,100	125	17,000	115	15,800	110	14,500	105	13,200	96
1600	20000	29.4	38	21,800	155	20,800	150	19,800	140	18,800	135	18,000	130	16,500	120	15,400	115
1630	20500	30.9	41	23,500	175	22,400	165	21,300	160	20,400	155	19,400	150	18,200	140	17,400	135
1680	21000	32.4	44	24,900	190	24,000	185	23,100	180	22,200	175	21,100	170	20,200	160	19,200	155
1720	21500	31.0	47			25,500	205	24,800	200	23,800	195	22,900	190	21,800	180	20,800	175
1760	22000	35.6	50					26,200	220	25,400	215	24,600	210	23,400	205	22,500	200
1800	22500	37.2	54							26,900	235	26,100	235	25,000	225	24,400	220

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq.inch		Static Pressure 30" Water 17.3 per ozs. sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pessure 35" Water 20.3 ozs. per sq. inch	
1510	19000	26.6	33	7,280	62												
1550	19500	28.0	35	11,700	86	9,600	76										
1600	20000	29.4	38	14,000	105	12,600	96	10,800	88	8,370	74						
1630	20500	30.9	41	16,200	125	15,000	115	13,700	110	12,300	100	10,400	90				
1680	21000	32.4	44	18,200	150	17,000	135	15,900	130	14,700	120	13,300	115	11,800	105	9,540	90
1720	21500	34.0	47	20,500	175	18,900	160	17,900	150	16,900	145	15,800	135	14,500	125	13,100	120
1760	22000	35.6	50	21,900	190	20,900	185	19,900	175	18,900	165	17,800	160	16,700	150	15,600	140
1800	22500	37.2	54	23,500	210	22,600	205	21,700	195	20,600	190	19,800	180	18,700	170	17,600	165

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
1720	21500	34.0	47	11,600	110	9,040	91										
1760	22000	35.6	50	14,200	130	13,000	125	11,200	115								
1800	22500	37.2	54	16,600	155	15,400	150	14,100	140								

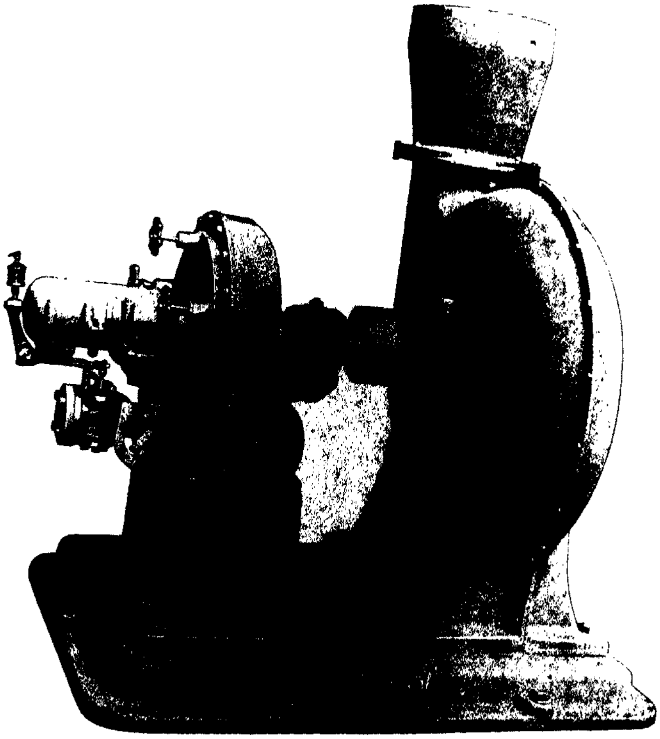
EXTRA HEAVY GAS BLOWERS

Cast Iron Fan Types

Designs 2, 3, 4 and 5

Dimensions, Capacities, Horse Powers

Extra Heavy Gas Blower—Design 2

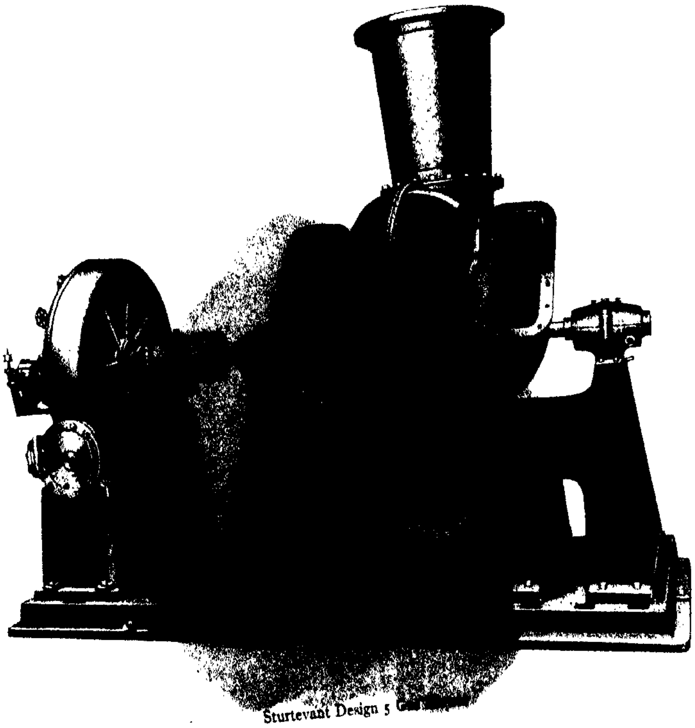


Sturtevant Design 2 Gas Blower

Extra Heavy Gas Blower—Design 4

Sturtevant Design 4 Gas Blower

Extra Heavy Gas Blower—Design 5



Sturtevant Design 5 [illegible]

EXTRA HEAVY GAS BLOWER — DESIGN 2

SPECIFICATIONS

General. There shall be furnished a number.........Design No. 2 Sturtevant Extra Heavy Gas Blower which will be made double inlet, single width........hand........discharge; and full housing. Fan shall be supplied with expanding outlet........diameter at the discharge end. Total height of the fan housing shall be approximately......inches; the width of the fan in direction of shaft approximately......inches; length traverse to the shaft approximately......inches. The Fan shall have a capacity of......cubic feet of free air per minute against a resistance of.....inches water gauge, at the outlet, when air is supplied freely to the inlet. Fan shall operate approximately........R. P. M., requiring approximately........B. H. P.

Housing. Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together, casing to be split on a plane at right angles to the shaft. Fan to be supported by heavy cast-iron feet, cast integral with the fan casing. Fan casing shall be supplied with machined foundation pieces to which the bearing brackets shall be securely bolted.

Bearings. The Bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support and shall be lined with best quality babbitt containing upwards of 85 per cent. tin, bored and scraped to exact size.

Shaft. Shaft shall be made from a steel forging, carefully turned and after keyways are cut, shall be accurately ground and polished.

Wheels. The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates which shall be made of refined steel plate in one piece, carefully cut and pressed to shape. Hub shall be made in sizes 4 and 5 of malleable iron. On sizes 6, 7, 8, 9, and 10, hub shall be made of cast iron having cast integral with it and radiating from it steel arms of T section. Hub shall be accurately bored and fitted to shaft; at the outer end of the arms, steel blades shall be securely riveted. Wheels shall be carefully balanced.

EXTRA HEAVY GAS BLOWER—DESIGN 4

SPECIFICATIONS

General. There shall be furnished a number ....Design 4 Sturtevant Extra Heavy Gas Blower which shall be made double inlet, single width........ hand.. ...discharge and have full housing. Blower shall be supplied with expanded outlet .. inches diameter at the discharge end. Total height of fan housing shall be approximately......inches; width of fan in the direction of the shaft approximately.... .inches; length transverse to the shaft approximately..... inches. Blower shall have capacity of.... ...cubic feet of free air per minute against resistance of......inches water gauge at the outlet when air is supplied freely to the inlet, and it shall operate at approximately........ R. P. M., requiring approximately....... B. H. P.

Housing. The housing shall be of spiral form constructed of cast iron and made in two halves, flanged and securely bolted together. These shall be split in a plane at right angles to the shaft. Housing shall be reinforced by heavy strengthening ribs running from the centre flange to circular reinforcing ribs concentric with the inlets. Housing shall be convertible and drilled so that the fan can be arranged for in any one of the eight different discharges and for either right or left hand.

Bearings. The bearings shall be of the spherical seated self-aligning type provided with split bearing sleeves of suitable length and size to give ample bearing support. Bearing sleeves shall be mounted in oil-tight and dust-tight housing, and provided with suitable sight gauge for determining the oil level. Bearings shall be thoroughly and continuously lubricated by means of oil rings. Bearings shall be provided with thrust collars which also act as oil throwers to catch and return to the oil reservoir any oil tending to creep along the shaft. Bearings shall be lined with best quality babbitt metal, containing upwards of 85 per cent. tin, bored, and scraped to exact size. Bearings shall be supported on rigid cast-iron pedestal which also supports the fan housing.

Shaft. Shaft shall be made of steel forging carefully turned and after the key-ways are cut, shall be accurately ground and polished. Shaft shall be tapered to give ample strength where the wheel is mounted, and to reduce the size through the bearing to prevent excessive bearing speed.

Wheels. Blades of blast wheel shall be of refined steel plate; flanged and riveted to the side plates which shall also be made of refined steel plate in one piece, carefully cut and pressed to shaft. Blades shall be securely riveted to T-arms of spider. Spider shall consist of a heavy cast-iron hub, having tapered steel T-arms cast integral with it and radiating from it. Hub shall be accurately bored and fitted to shaft. There shall be a steel reinforcing ring securely riveted to the inlets of the wheel. Wheel shall be carefully balanced.

Extra Heavy Gas Blower—Designs 2, 3, 4 and 5
Cast Iron Fan Type

EXPLANATION OF TABLES

We refer you to the general explanation of tables at the front of the book and to the explanation of the tables for **Monogram Fans**.

Extra Heavy Gas Blower

APPROXIMATE WEIGHTS

Design 2

Size	Blower only	Adjustable bed, sliding outlet
4	290	470
5	500	700
6	700	990
7	1150	1650
8	1650	2385
9	2000	3400
10	3250	5000

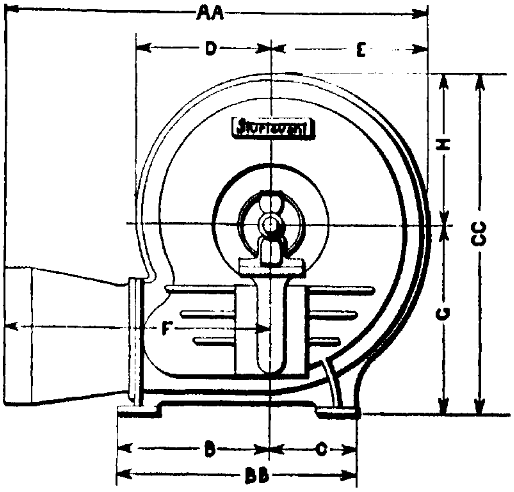
Design 4

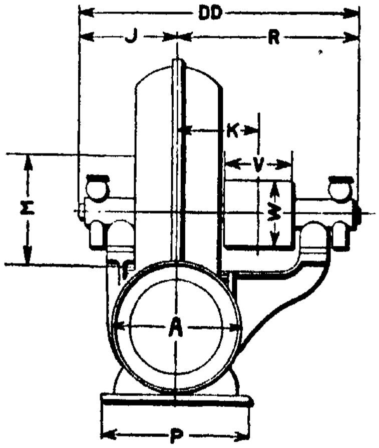
Size	Blower only
4	450
5	700
6	1000
7	1700
8	2400
9	3000
10	4700

Double Inlet **Single Width**

Extra Heavy Gas Blower—Design 2

Full Housing **Bottom Horizontal Discharge**



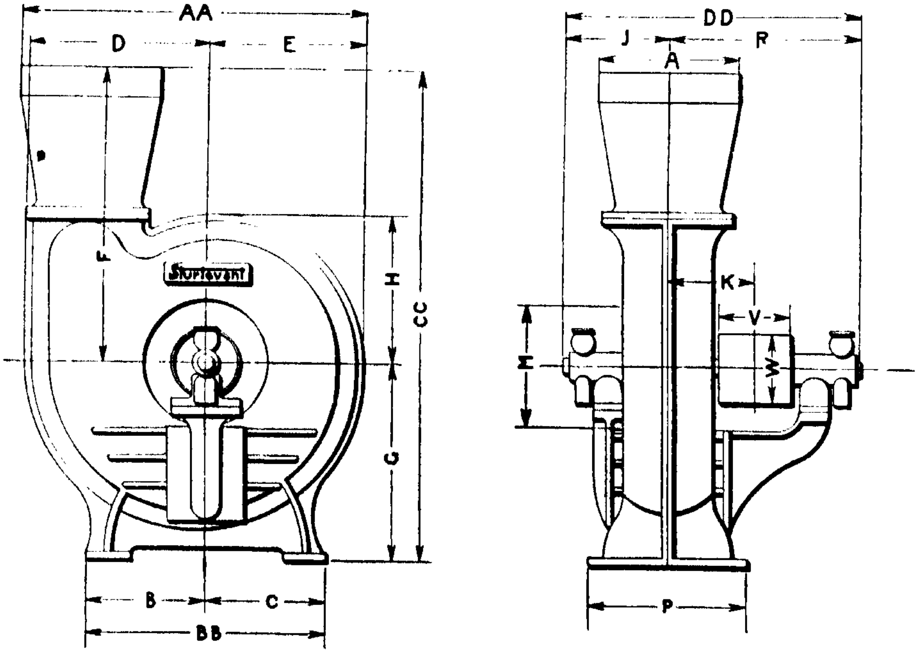


Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
4	13½	15¼	7½	12½	15	25⅝	17¼	13¾	9	7½	10⅞	14	16½	7	6	40⅝	22¾	31	25½	19	1	⅝
5	14½	17½	9½	14⅞	17⅝	30⅜	20	16¼	10¾	9	11¾	16½	19⅜	8	7	48	27	36¼	29¾	21½	1¼	⅝
6	16	20	11	17	20½	32½	23	18¾	11 15/16	10	14¾	19	22	9	8	53	31	41¾	33 13/16	26	1 7/16	⅝
7	22	23⅝	12¾	20	21	50	28	22	14⅝	13	16	24	26⅛	11	9	74	36⅜	50	40¼	30¾	1½	¾
8	25	26¾	13¾	23⅛	27⅛	56⅛	31½	25⅛	17 1/16	15¾	18	27½	32½	13	10	83¼	40½	56⅜	49 3/16	36	1 11/16	¾
9	30	30⅜	16½	26	31½	64	37	28¾	19⅝	18	21	31¼	36 11/16	15	12	95½	46⅞	65⅜	56 3/16	40	1 15/16	⅞
10	34	34¾	21¾	31½	37½	71½	43	34½	21 1/16	22	24	30¼	40⅜	17	14	109	56½	77½	61 13/16	48	2 7/16	1

Double Inlet **Single Width**

Extra Heavy Gas Blower—Design 2

Full Housing **Up Blast Discharge**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
4	13½	10	10	16½	13¾	25⅜	17⅛	12½	9	7½	10⅛	14	16½	7	6	31¼	20	42¾	25½	19	1	⅝
5	14½	12¼	12¼	19	16¼	30⅜	20¼	14⅞	10⅜	9	11¾	16½	19⅜	8	7	36	24½	50⅝	29¾	21½	1⅛	⅝
6	16	19	12	22¼	18¾	32½	23½	17	11 13/16	10	14⅞	19	22	9	8	41¼	31	56	33 13/16	26	1 5/16	⅝
7	22	16	16	26	22	50	27¾	20	14¾	13	16	24	26⅛	11	9	49¾	32	77¾	40⅞	30½	1½	¾
8	25	18	18	29⅛	25⅛	56⅛	30⅞	23⅛	17 1/16	15¼	18	27½	32½	13	10	56⅜	36	87	49 9/16	36	1 11/16	¾
9	30	20¼	20¼	34¼	28¾	64	35½	26	19⅜	18	21	31¼	36 11/16	15	12	65¾	40½	99½	56 1/16	40	1 15/16	⅞
10	34	23½	23½	40⅜	34½	71½	39⅞	31½	21 5/16	22	24	36¼	40⅜	17	14	77¾	47	111⅛	61 11/16	48	2 7/16	1

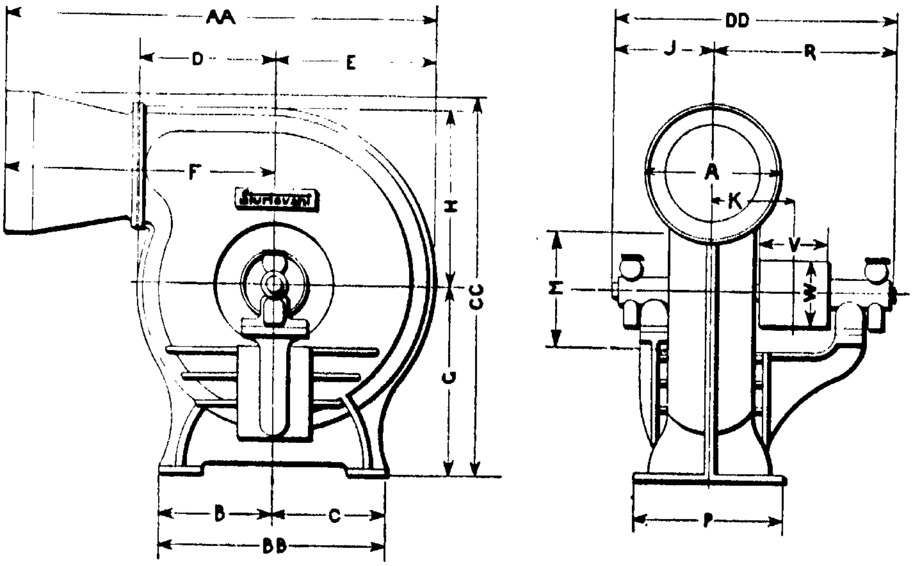
Double Inlet

Extra Heavy Gas Blower—Design 2

Single Width

Full Housing

Top Horizontal Discharge



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
4	13½	11¼	11¼	12½	15	25⅝	15½	16¼	9	7½	10⅛	14	16½	7	6	40⅝	22½	33	25½	19	1	⅝
5	14½	12¼	12¼	14⅞	17⅝	30⅞	18⅞	19	10⅞	9	11¼	16½	19⅞	8	7	48	24½	38⅝	29¾	21½	1⅛	⅝
6	16	17	13¾	17	20½	32½	22	22½	11 15/16	10	14⅜	19	22	9	8	53	30¾	44½	33 13/16	26	1 5/16	¾
7	22	16¼	15¾	20	24	50	23½	26	14⅝	13	16	21	26⅛	11	9	74	32	51¼	40¾	30¾	1½	¾
8	25	17¾	17¾	23⅛	27¼	56⅛	28	29¼	17 1/16	15⅞	18	27½	32½	13	10	83¼	35½	59¼	49 9/16	36	1 11/16	¾
9	30	20¼	20¼	26	31½	64	32½	34¼	19⅝	18	21	31¼	36 11/16	15	12	95½	40½	69½	56 5/16	40	1 15/16	⅞
10	34	23½	23½	31½	37½	71½	36	40½	21 1/16	22	24	36¼	40⅜	17	14	109	47	79¼	61 11/16	48	2 7/16	1

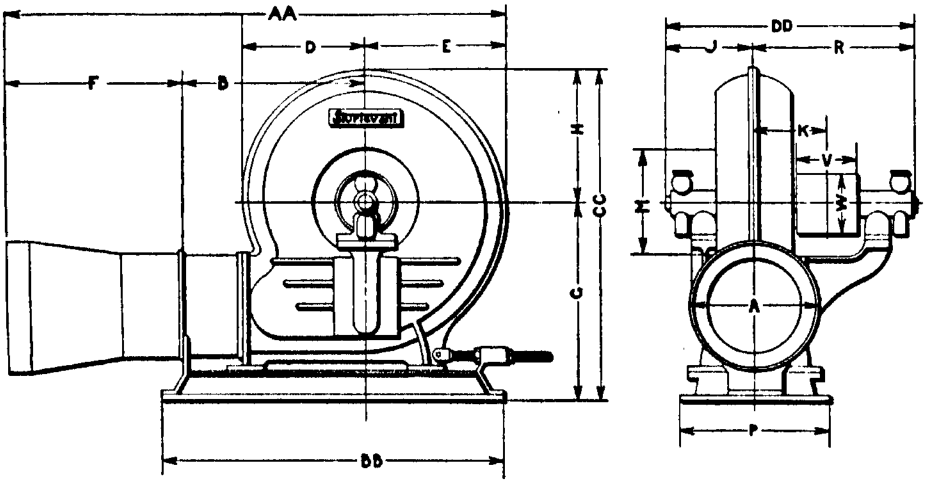
Double Inlet

Extra Heavy Gas Blower with Adjustable Bed
Design 2

Single Width

Full Housing

Bottom Horizontal Discharge

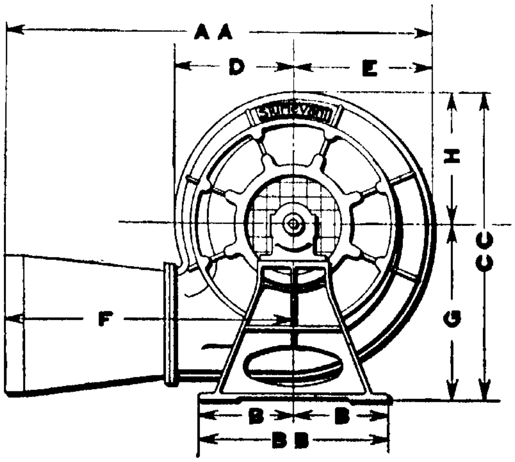


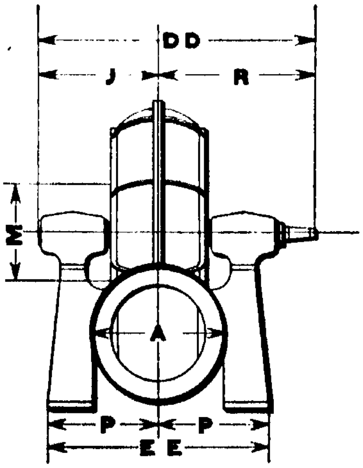
Fan Size	A	B	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
4	13½	25¾	12½	15	20¾	20¼	13¾	9	7½	10⅛	15¾	16½	7	6	61½	34¾	34	25½	19	1	⅝
5	14½	29⅜	14⅜	17⅜	24	23½	16¼	10⅜	9	11¾	18	19⅜	8	7	70¾	40⅝	39¾	29¾	21½	1⅛	⅝
6	16	32¼	17	20½	25	27¼	18⅜	11 13/16	10	14¾	20½	22	9	8	77¾	46	45⅝	33 13/16	26	1 3/16	⅝
7	22	36½	20	24	32½	33	22	14⅝	13	16	26½	26⅛	11	9	93	52½	55	40¾	30¾	1½	¾
8	25	40¾	23⅛	27¼	36	37½	25⅛	17 1/16	15¾	18	30	32½	13	10	105	59½	62⅝	49 9/16	36	1 11/16	¾
9	30	47¾	26	31½	44	44	28¾	19⅝	18	21	35	36 15/16	15	12	123¼	68	72¾	56 9/16	40	1 15/16	⅞
10	34	54½	31½	37½	49¾	51	34½	21 1/16	22	24	40	40⅝	17	14	141¾	80½	85½	61 11/16	48	2 7/16	1

Double Inlet **Single Width**

Extra Heavy Gas Blower—Design 4

Full Housing **Bottom Horizontal Discharge** **Overhung Pulley**



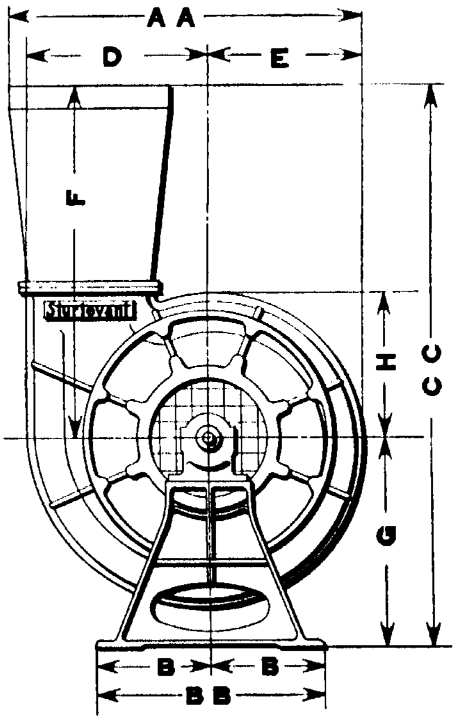


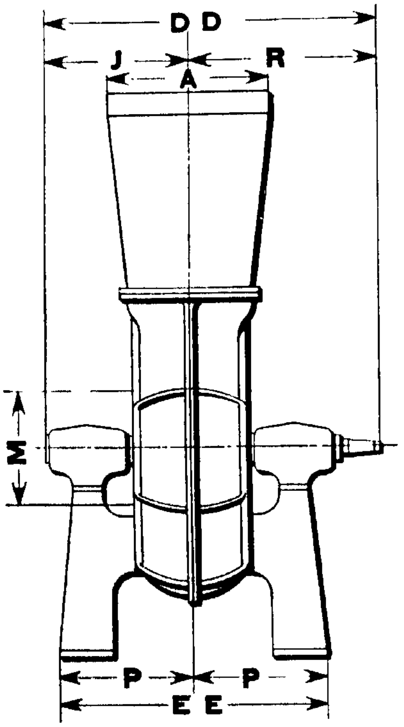
Size	A	B	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter		Anchor Bolts
																		in Bearing	in Hub	
4	13½	12½	13⅛	15¼	25¾	19	14⅛	14 5/16	10	13½	19¾	41	25	33⅛	34 1/16	27	19	1½	1 11/16	⅞
5	14⅝	13¾	15¼	17¾	30¼	21½	16½	15 5/16	11¾	14⅝	20¾	48	27½	38	36 1/16	29¼	21½	1½	1 11/16	1
6	16⅝	15¼	17⅜	20⅜	32⅜	24⅛	18⅞	19 9/16	14¼	17¼	25⅜	52¾	30½	43⅜	44 15/16	34½	26	1 15/16	2 3/16	1⅛
7	22	16½	20	24	50	29	22	21½	16	20	28¾	74	33	51	50⅛	40	30¾	2 3/16	2 11/16	1⅛
8	26	19¼	22⅞	26⅝	56¼	33	24⅝	23⅛	18	22	30½	83⅛	38½	57⅜	53¾	44	36	2 7/16	2 15/16	1⅛
9	30	21¼	26⅜	31	64¼	38	28⅜	26⅜	21	24½	35	95¼	42½	66⅝	61⅜	49	40	2 11/16	3 7/16	1¼
10	34	25½	31	37	71⅝	45	34⅜	28⅞	24	27¾	37½	108⅝	51	79⅝	66⅞	55½	48	2 15/16	3 7/16	1½

Double Inlet **Single Width**

Extra Heavy Gas Blower—Design 4

Full Housing **Up Blast Discharge** **Overhung Pulley**



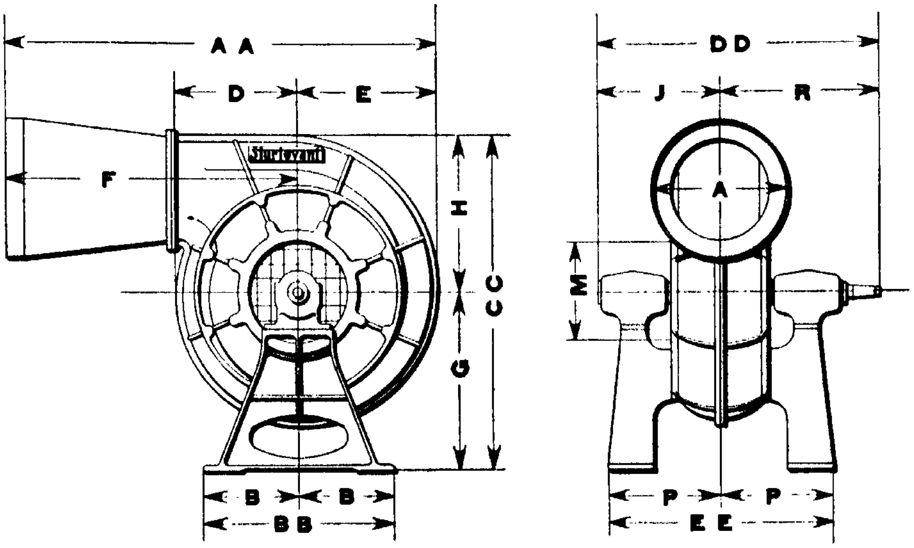


Size	A	B	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter in Bearing	Shaft Diameter in Hub	Anchor Bolts
4	13½	12½	16¾	14⅛	25¼	19	13⅛	14 5/16	10	13½	19¾	31¾	25	44¾	34 9/16	27	19	1½	1 11/16	⅞
5	14⅝	13¾	19	16½	30¼	21½	15¼	15 5/16	11¾	14⅝	20¾	36½	27½	51¾	36 1/16	29¼	21½	1½	1 11/16	1
6	16⅝	15¼	21¾	18⅞	32⅝	24½	17⅜	19 9/16	14¼	17¼	25⅜	41⅝	30½	56⅞	44 15/16	34½	26	1 15/16	2 3/16	1⅛
7	22	16½	26	22	50	29	20	21½	16	20	28¾	49¾	33	79	50¼	40	30¾	2 3/16	2 11/16	1⅛
8	26	19¼	29¼	24⅜	56¼	33	22⅞	23¼	18	22	30½	56⅜	38½	89¼	53¾	44	36	2 7/16	2 15/16	1⅛
9	30	21¼	33¾	28⅝	64¼	38	26⅜	26⅜	21	24½	35	65¼	42½	102¼	61⅜	49	40	2 11/16	3 7/16	1¼
10	34	25½	40¼	34⅜	71⅝	45	31	28⅞	24	27¾	37½	77 13/16	51	116⅝	66⅜	55½	48	2 15/16	3 7/16	1½

Double Inlet | **Single Width**

Extra Heavy Gas Blower—Design 4

Full Housing **Top Horizontal Discharge** **Overhung Pulley**



Size	A	B	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter in Bearing	Shaft Diameter in Hub	Anchor Bolts
4	13½	12½	13⅞	15¼	25¾	19	16⅞	14 5/16	10	13½	19¾	41	25	35⅜	34 1/16	27	19	1½	1 11/16	⅞
5	14⅝	13¾	15¼	17¼	30¼	21½	19	15 5/16	11¾	14⅝	20¾	48	27½	40½	36 1/16	29¼	21½	1½	1 11/16	1
6	16⅝	15¼	17⅞	20⅝	32⅞	24½	21¼	19 9/16	14¼	17¼	25⅜	52¾	30½	46¼	44 15/16	34½	26	1 15/16	2 3/16	1⅛
7	22	16½	20	24	50	29	26	21½	16	20	28¾	74	33	55	50¼	40	30¾	2 3/16	2 11/16	1¼
8	26	19¼	22⅞	26⅞	56½	33	29¼	23¼	18	22	30½	83¼	38½	62¼	53¾	44	36	2 7/16	2 15/16	1¼
9	30	21¼	26⅛	31	64¼	38	33¾	26⅞	21	24½	35	95¼	42½	71¾	61⅞	49	40	2 11/16	3 7/16	1¼
10	34	25½	31	37	71⅝	45	40⅛	28⅞	24	27¾	37½	108⅜	51	85¼	66⅞	55½	48	2 15/16	3 7/16	1½

Double Inlet

No. 4 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
2610	13000	13.9	2.1	1,400	5.0												
2660	13250	14.5	2.2	2,040	6.9												
2710	13500	15.0	2.3	2,400	8.2	1,730	6.3										
2760	13750	15.6	2.5	2,680	9.1	2,180	7.9										
2785	13875	15.9	2.5	2,810	10.0	2,380	8.6	1,620	6.5								
2810	14000	16.2	2.6	2,950	10.5	2,520	9.2	1,970	7.5								
2860	14250	16.8	2.8	3,210	12.0	2,820	10.5	2,360	9.0	1,590	6.7						
2910	14500	17.4	2.9	3,460	13.5	3,100	12.0	2,690	10.5	2,180	8.9						
2935	14625	17.7	3.0	3,560	14.0	3,240	12.5	2,840	11.0	2,370	9.6	1,580	7.1				
2960	14750	18.0	3.1	3,680	14.5	3,360	13.5	2,990	12.0	2,570	10.5	1,990	8.7				
3010	15000	18.6	3.2	3,890	16.0	3,560	14.5	3,250	13.5	2,860	12.0	2,400	10.5	1,490	7.2		
3060	15250	19.2	3.4	4,130	17.5	3,800	16.0	3,510	15.0	3,160	13.5	2,740	12.0	2,250	10.0		
3085	15375	19.5	3.5	4,240	18	3,920	17.0	3,620	15.5	3,280	14.0	2,900	12.5	2,440	11.0	1,660	8.2
3110	15500	19.8	3.5	4,320	19	4,030	17.5	3,730	16.5	3,380	15.0	3,040	13.5	2,610	12.0	2,010	9.6
3210	16000	21.1	3.9	4,720	22	4,450	20.5	4,170	19.5	3,870	18.0	3,560	16.5	3,240	15.5	2,830	13.5
3310	16500	22.5	4.3			4,860	24	4,610	23	4,340	21.5	4,030	20.0	3,770	19	3,430	17.0
3410	17000	23.8	4.7					5,010	26	4,750	25	4,500	23.5	4,220	22	3,950	21.0
3510	17500	25.3	5.1							5,150	29	4,910	27	4,670	26	4,420	24.5
3610	18000	26.7	5.5									5,300	31	5,070	30	4,850	29
3710	18500	28.3	6.0											5,470	34	5,250	33

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
3162	15750	20.5	3.7	1,700	8.80												
3210	16000	21.1	3.9	2,330	11.5												
3235	16125	21.5	4.0	2,580	13.0	1,790	9.7										
3260	16250	21.8	4.1	2,740	13.5	2,200	11.5										
3310	16500	22.5	4.3	3,090	15.5	2,660	14.0	2,010	11.0								
3360	16750	23.1	4.5	3,340	17.5	2,950	15.5	2,520	13.5								
3385	16875	23.5	4.6	3,500	18.5	3,140	17.0	2,720	15	2,130	12.0						
3410	17000	23.9	4.7	3,610	19.0	3,300	17.5	2,910	16	2,410	13.5						
3435	17125	24.2	4.8	3,750	20	3,420	18.5	3,050	17	2,610	14.5	1,880	11.5				
3460	17250	24.6	4.9	3,880	21	3,590	19.5	3,230	18	2,810	16	2,280	13.5				
3510	17500	25.3	5.1	4,090	23	3,820	21.5	3,500	20	3,130	18	2,730	16.0	2,130	13.0		
3560	17750	26.0	5.3	4,310	25	4,070	23.5	3,770	22	3,440	20	3,080	18.0	2,670	16.0	1,840	12.5
3610	18000	26.8	5.5	4,550	27	4,300	25	4,010	24	3,720	22	3,410	20.5	3,040	18.5	2,580	16.5
3710	18500	28.2	6.0	5,000	31	4,750	30	4,480	28	4,230	27	3,950	25	3,640	23	3,280	21
3810	19000	29.8	6.5	5,420	36	5,170	34	4,940	32	4,710	31	4,430	29	4,180	28	3,920	26
3910	19500	31.4	7.0					5,380	37	5,110	36	4,900	34	4,660	32	4,300	31
4010	20000	33	7.5											5,100	37	4,880	36

Double Inlet

No. 4 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29″ Water 16.8 ozs. per sq. inch		Static Pressure 30″ Water 17.3 ozs. per sq. inch		Static Pressure 31″ Water 17.9 ozs. per sq. inch		Static Pressure 32″ Water 18.5 ozs. per sq. inch		Static Pressure 33″ Water 19.1 ozs. per sq. inch		Static Pressure 34″ Water 19.7 ozs. per sq. inch		Static Pressure 35″ Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
3635	18125	27.2	5.6	2,170	14.5												
3660	18250	27.5	5.7	2,470	16.0												
3685	18375	27.8	5.9	2,710	18.0	1,820	13.5										
3710	18500	28.3	6.0	2,920	19.5	2,300	16.0										
3735	18625	28.6	6.1	3,120	20.5	2,660	18.0	1,680	13.0								
3760	18750	29.0	6.2	3,240	21.5	2,860	19.5	2,250	16.0								
3810	19000	29.8	6.5	3,590	24	3,250	22.0	2,830	20.0	2,090	15.5						
3860	19250	30.6	6.7	3,890	26	3,580	24.5	3,210	22.5	2,780	20.0	1,910	15.5				
3910	19500	31.4	7.0	4,110	29	3,860	27	3,550	25	3,160	23.0	2,720	20.5				
3935	19625	31.8	7.2	4,280	30	3,990	28	3,710	27	3,360	24.5	2,950	22.0	2,350	18.5		
3960	19750	32.2	7.3	4,380	31	4,130	30	3,840	28	3,500	26	3,150	23.5	2,660	20.5		
3985	19875	32.6	7.4	4,530	33	4,270	31	3,980	29	3,680	27	3,310	25	2,900	22.5	2,200	18.0
4010	20000	33.0	7.5	4,630	34	4,400	32	4,120	30	3,820	28	3,480	26	3,120	24	2,600	20.5
4110	20500	34.7	8.1			4,860	37	4,620	36	4,370	34	4,100	32	3,800	30	3,490	28
4210	21000	36.4	8.8									4,640	38	4,370	35	4,070	33

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36″ Water 20.8 ozs. per sq. inch		Static Pressure 37″ Water 21.4 ozs. per sq. inch		Static Pressure 38″ Water 22.0 ozs. per sq. inch		Static Pressure 39″ Water 22.5 ozs. per sq. inch		Static Pressure 40″ Water 23.1 ozs. per sq. inch		Static Pressure 41″ Water 23.7 ozs. per sq. inch		Static Pressure 42″ Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
4050	20125	33.5	7.7	2,170	18.5												
4075	20250	33.9	7.9	2,560	21												
4100	20375	34.2	8.0	2,790	23	1,830	16.5										
4110	20500	34.7	8.1	3,080	25	2,490	21										
4170	20750	35.5	8.4	3,420	28	3,020	25	2,430	21.5								
4210	21000	36.4	8.8	3,810	31	3,420	29	3,040	26.0	2,410	22						
4275	21250	37.3	9.1	4,120	34	3,760	32	3,450	30	3,040	27	2,350	22				
4325	21500	38.2	9.4	4,370	37	4,130	35	3,810	33	3,460	30	3,050	28	2,320	22.5		
4370	21750	39.0	9.7					4,120	36	3,790	34	3,460	31	3,010	28	2,270	22.5
4420	22000	40.0	10							4,160	38	3,830	35	3,510	33	2,980	28
4522	22500	41.7	11													3,820	36

Double Inlet

No. 5 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
2310	13000	13.9	2.5	1,700	6.0												
2350	13250	14.5	2.7	2,460	8.4												
2390	13500	15.0	2.8	2,900	9.9	2,090	7.7										
2440	13750	15.6	3.0	3,250	11.5	2,640	9.6										
2460	13875	15.9	3.1	3,410	12.0	2,880	10.5	1,970	7.8								
2480	14000	16.2	3.2	3,570	12.5	3,060	11.0	2,380	9.2								
2530	14250	16.8	3.3	3,890	14.5	3,410	13.0	2,850	11.0	1,930	8.1						
2570	14500	17.4	3.5	4,180	16.0	3,760	14.5	3,250	12.5	2,640	10.5						
2590	14625	17.7	3.6	4,320	17.0	3,920	15.5	3,440	13.5	2,870	11.5	1,920	8.6				
2620	14750	18.0	3.7	4,460	17.5	4,070	16.0	3,620	14.5	3,110	12.5	2,410	10.5				
2660	15000	18.6	3.9	4,720	19.5	4,320	17.5	3,950	16.5	3,470	14.5	2,910	12.5	1,800	8.7		
2710	15250	19.2	4.1	5,000	21	4,600	19.5	4,250	18.0	3,830	16.5	3,330	14.5	2,730	12.5		
2730	15375	19.5	4.2	5,120	22	4,750	20.5	4,440	19.0	3,970	17.0	3,510	15.5	2,950	13.5	2,010	10.0
2750	15500	19.8	4.3	5,240	23	4,880	21.5	4,520	19.5	4,100	18.5	3,690	16.5	3,160	14.5	2,440	11.5
2840	16000	21.1	4.7	5,710	27	5,400	25	5,050	23.5	4,690	22	4,320	20	3,930	18.5	3,430	16.5
2920	16500	22.5	5.1			5,900	29	5,590	28	5,260	26	4,900	24	4,570	23	4,160	21
3020	17000	23.8	5.6					6,070	32	5,760	30	5,460	29	5,110	27	4,790	25
3120	17500	25.3	6.1							6,250	35	5,960	33	5,650	31	5,350	30
3200	18000	26.7	6.7									6,410	38	6,150	36	5,880	35
3290	18500	28.3	7.3											6,630	41	6,320	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
2800	15750	20.5	4.5	2,060	10.5												
2840	16000	21.1	4.7	2,820	14.0												
2860	16125	21.5	4.8	3,120	15.5	2,160	11.5										
2880	16250	21.8	4.9	3,320	16.5	2,660	14.0										
2920	16500	22.5	5.1	3,740	19.0	3,220	17.0	2,430	13.5								
2970	16750	23.1	5.4	4,050	21.0	3,580	19.0	3,050	16.5								
2995	16875	23.5	5.5	4,250	22.5	3,810	20.0	3,290	18.0	2,570	14.5						
3020	17000	23.9	5.6	4,380	23.0	4,000	21.5	3,520	19.5	2,920	16.5						
3045	17125	24.2	5.8	4,550	24.5	4,150	22.5	3,700	20.5	3,160	18.0	2,280	14.0				
3070	17250	24.6	5.9	4,720	26	4,370	24	3,910	22	3,400	19.0	2,760	16.5				
3120	17500	25.3	6.1	4,970	28	4,630	26	4,240	24	3,800	22.0	3,300	19.5	2,570	16.0		
3170	17750	26.0	6.4	5,260	30	4,930	28	4,570	27	4,170	24.5	3,730	22.0	3,230	19.5	2,230	15
3200	18000	26.8	6.7	5,520	32	5,220	31	4,870	29	4,500	27	4,130	25	3,680	22.5	3,120	20
3290	18500	28.2	7.3	6,060	38	5,770	36	5,430	34	5,120	32	4,780	30	4,400	28	3,970	25
3380	19000	29.8	7.9	6,580	43	6,280	41	5,970	39	5,700	37	5,360	35	5,070	34	4,750	32
3420	19500	31.4	8.5					6,500	45	6,240	43	5,930	41	5,650	39	5,330	37
3560	20000	33	9.2											6,180	45	5,910	43

Double Inlet

No. 5 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
3221	18125	27.2	6.8	2,630	17.5												
3244	18250	27.5	7.0	2,900	19.5												
3267	18375	27.8	7.1	3,290	21.5	2,250	16.0										
3290	18500	28.3	7.3	3,550	23.5	2,860	19.5										
3313	18625	28.6	7.4	3,780	25	3,220	22.0	2,030	15.5								
3336	18750	29.0	7.6	3,980	26	3,460	23.5	2,720	19.5								
3380	19000	29.8	7.9	4,350	29	3,940	27	3,420	24	2,530	19						
3425	19250	30.6	8.2	4,710	32	4,330	30	3,880	27	3,360	24	2,310	18.5				
3470	19500	31.4	8.5	5,020	35	4,670	33	4,300	31	3,820	27	3,290	24.5				
3493	19625	31.8	8.7	5,180	37	4,830	34	4,490	32	4,070	30	3,580	27	2,850	22		
3515	19750	32.2	8.8	5,300	38	5,000	36	4,650	33	4,240	31	3,810	28	3,230	25		
3538	19875	32.6	9.0	5,480	40	5,180	38	4,820	35	4,460	33	4,010	30	3,510	27	2,660	22
3560	20000	33.0	9.2	5,600	41	5,330	39	5,000	37	4,630	34	4,220	32	3,780	29	3,140	25
3650	20500	34.7	9.9			5,880	45	5,600	43	5,280	41	4,960	38	4,600	36	4,230	34
3740	21000	36.4	11									5,619	45	5,280	43	4,930	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
3582	20125	33.5	9.3	2,630	22.5												
3605	20250	33.9	9.5	3,110	26												
3627	20375	34.2	9.7	3,380	28	2,220	20										
3650	20500	34.7	9.9	3,730	30	3,020	26										
3695	20750	35.5	10	4,150	34	3,660	31	2,950	26								
3740	21000	36.4	11	4,620	38	4,140	35	3,690	32	2,920	27						
3785	21250	37.3	11	4,980	42	4,560	39	4,170	36	3,680	33	2,840	27				
3830	21500	38.2	12	5,290	45	4,900	43	4,610	40	4,200	37	3,700	33	2,820	27		
3875	21750	39.0	12					4,980	44	4,600	41	4,190	38	3,650	34	2,750	28
3920	22000	40.0	12							5,040	46	4,630	42	4,250	39	3,610	34
4010	22500	41.7	13													4,630	44

Double Inlet

No. 6 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1910	13000	13.9	3.4	2,260	8.0												
1940	13250	11.5	3.6	3,280	11.0												
1980	13500	15.0	3.8	3,860	13.0	2,780	10.0										
2020	13750	15.6	4.0	4,330	15.0	3,500	12.5										
2040	13875	15.9	4.1	4,530	16.0	3,830	14.0	2,620	10.5								
2060	14000	16.2	4.2	4,750	17.0	4,070	15.0	3,170	12.0								
2090	11250	16.8	4.4	5,170	19.0	4,510	17.0	3,780	14.5	2,560	11.0						
2130	14500	17.4	4.7	5,580	21.5	5,000	19.5	4,330	17.0	3,510	11.5						
2150	14625	17.7	4.8	5,730	22.0	5,200	20.5	4,580	18.0	3,820	15.5	2,540	11.5				
2160	14750	18.0	4.9	5,940	23.5	5,120	21.5	4,800	19.5	4,130	17.0	3,210	14.0				
2200	15000	18.6	5.1	6,270	26	5,750	23.5	5,240	21.5	4,610	19.5	3,880	16.5	2,390	11.5		
2240	15250	19.2	5.4	6,650	28	6,130	26	5,640	24	5,100	22.0	4,430	19.0	3,630	16.5		
2260	15375	19.5	5.5	6,820	29	6,320	27	5,840	25	5,280	23.0	4,670	20.5	3,930	17.5	2,680	13.5
2270	15500	19.8	5.7	6,970	31	6,510	28	6,000	26	5,440	21.5	4,910	22	4,200	19.0	3,230	15.5
2350	16000	21.1	6.2	7,600	35	7,150	33	6,700	31	6,240	29	5,730	27	5,220	24.5	4,550	22
2420	16500	22.5	6.8			7,840	39	7,440	37	6,970	35	6,500	32	6,070	30	5,530	28
2490	17000	23.8	7.5					8,050	42	7,640	40	7,260	38	6,800	36	6,360	34
2560	17500	25.3	8.2							8,290	46	7,910	44	7,510	42	7,100	40
2640	18000	26.7	8.9									8,550	50	8,160	48	7,800	46
2720	18500	28.3	9.6											8,820	55	8,340	53

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
2315	15750	20.5	6.0	2,740	14.0												
2350	16000	21.1	6.2	3,750	18.5												
2368	16125	21.5	6.4	4,150	20.5	2,880	15.5										
2385	16250	21.8	6.5	4,430	22	3,540	18.5										
2420	16500	22.5	6.8	4,970	25	4,280	22	3,240	18								
2455	16750	23.1	7.2	5,380	28	4,770	25	4,060	22								
2473	16875	23.5	7.3	5,640	30	5,070	27	4,380	24	3,420	19.5						
2490	17000	23.9	7.5	5,830	31	5,320	28	4,080	26	3,880	22						
2508	17125	24.2	7.7	6,050	33	5,520	30	4,920	27	4,200	24	3,030	18.5				
2525	17250	24.6	7.8	6,260	34	5,780	32	5,210	29	4,520	26	3,670	22				
2560	17500	25.3	8.2	6,590	37	6,160	35	5,640	32	5,050	29	4,400	26	3,420	21.5		
2600	17750	26.0	8.5	6,900	40	6,560	38	6,070	35	5,540	32	4,960	29	4,300	26	2,960	20
2640	18000	26.8	8.9	7,350	43	6,930	41	6,480	39	5,980	36	5,550	33	4,900	30	4,150	26
2720	18500	28.2	9.6	8,050	50	7,670	48	7,230	45	6,820	43	6,370	40	5,860	37	5,270	34
2800	19000	29.8	11	8,750	58	8,350	54	7,950	52	7,580	50	7,130	47	6,740	45	6,320	42
2880	19500	31.4	12					8,640	60	8,200	58	7,890	54	7,510	52	7,080	49
2960	20000	33	12											8,230	60	7,870	58

Double Inlet

No. 6 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2665	18125	27.2	9.1	3,500	23.5												
2683	18250	27.5	9.3	3,980	26												
2702	18375	27.8	9.4	4,380	29	2,990	21.5										
2720	18500	28.3	9.6	4,720	31	3,810	26										
2738	18625	28.6	9.8	5,030	33	4,300	29	2,710	21								
2755	18750	29.0	10	5,300	35	4,600	31	3,620	26								
2800	19000	29.8	11	5,780	39	5,230	36	4,500	32	3,370	25						
2837	19250	30.6	11	6,270	43	5,760	40	5,160	36	4,460	32	3,080	21.5				
2880	19500	31.4	12	6,680	47	6,220	44	5,710	41	5,090	37	4,380	33				
2898	19625	31.8	12	6,880	49	6,430	46	5,980	43	5,420	39	4,760	35	3,790	30		
2915	19750	32.2	12	7,080	50	6,650	48	6,200	45	5,640	41	5,080	38	4,300	33		
2933	19875	32.6	12	7,300	52	6,900	50	6,410	47	5,930	44	5,340	40	4,670	36	3,540	29
2960	20000	33.0	12	7,450	54	7,080	52	6,650	49	6,160	46	5,600	42	5,220	38	4,180	33
3010	20500	34.7	13			7,840	60	7,450	58	7,040	54	6,600	52	6,110	48	5,630	45
3085	21000	36.4	14									7,470	60	7,030	56	6,550	54

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2954	20125	33.5	13	3,500	30												
2972	20250	33.9	13	4,130	34												
2991	20375	34.2	13	4,480	37	2,950	27										
3010	20500	34.7	13	4,960	40	4,020	34										
3048	20750	35.5	14	5,500	46	4,870	41	3,910	35								
3085	21000	36.4	14	6,130	50	5,510	46	4,900	42	3,880	35						
3123	21250	37.3	15	6,630	56	6,060	52	5,550	48	4,900	43	3,790	36				
3160	21500	38.2	15	7,040	60	6,650	56	6,140	54	5,500	49	4,920	44	3,740	36		
3198	21750	39.0	16					6,630	58	6,100	54	5,560	50	4,850	45	3,660	37
3235	*22000	40.0	16							6,700	60	6,150	56	5,660	52	4,810	46
3310	22500	41.7	18													6,160	58

Double Inlet

No. 7 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

(Continued)

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15″ Water 8.66 ozs. per sq. inch		Static Pressure 16″ Water 9.25 ozs. per sq. inch		Static Pressure 17″ Water 9.82 ozs. per sq. inch		Static Pressure 18″ Water 10.4 ozs. per sq. inch		Static Pressure 19″ Water 11.0 ozs. per sq. inch		Static Pressure 20″ Water 11.6 ozs. per sq. inch		Static Pressure 21″ Water 12.1 ozs. per sq. inch	
1612	13000	13.9	6.1	4,100	14.5												
1642	13250	14.5	6.4	5,950	20												
1675	13500	15.0	6.8	7,000	24	5,040	18.5										
1705	13750	15.6	7.2	7,850	28	6,380	23										
1720	13875	15.9	7.4	8,200	29	6,950	25	4,740	19								
1740	14000	16.2	7.6	8,600	31	7,370	27	5,750	22								
1765	14250	16.8	8.0	9,370	35	8,210	31	6,890	26	4,650	19.5						
1800	14500	17.4	8.4	10,100	39	9,080	35	7,850	31	6,360	26						
1812	14625	17.7	8.6	10,400	41	9,440	37	8,300	33	6,930	28	4,620	21				
1830	14750	18.0	8.9	10,800	43	9,800	39	8,730	35	7,500	31	5,810	25				
1860	15000	18.6	9.3	11,400	47	10,400	43	9,500	39	8,360	35	7,030	30	4,340	21		
1890	15250	19.2	9.8	12,000	52	11,100	47	10,200	43	9,240	40	8,030	35	6,570	30		
1910	15375	19.5	10	12,300	54	11,500	49	10,600	46	9,580	42	8,480	37	7,120	32	4,850	24
1930	15500	19.8	11	12,600	56	11,800	52	10,900	48	9,860	44	8,900	40	7,620	35	5,870	28
1985	16000	21.1	12	13,800	64	13,000	60	12,200	56	11,300	52	10,400	49	9,470	45	8,260	40
2045	16500	22.5	13			14,200	70	13,500	66	12,700	64	11,800	58	11,000	54	10,000	50
2110	17000	23.8	14					14,600	76	13,900	72	13,200	70	12,300	66	11,500	60
2170	17500	25.3	15							15,100	84	14,400	80	13,600	76	12,900	72
2240	18000	26.7	16									15,500	92	14,800	88	14,200	84
2300	18500	28.3	18											16,000	100	15,300	96

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22″ Water 12.7 ozs. per sq. inch		Static Pressure 23″ Water 13.3 ozs. per sq. inch		Static Pressure 24″ Water 13.9 ozs. per sq. inch		Static Pressure 25″ Water 14.5 ozs. per sq. inch		Static Pressure 26″ Water 15.0 ozs. per sq. inch		Static Pressure 27″ Water 15.6 ozs. per sq. inch		Static Pressure 28″ Water 16.2 ozs. per sq. inch	
1955	15750	20.5	11	4,980	26												
1985	16000	21.1	12	6,810	34												
2003	16125	21.5	12	7,530	37	5,220	27										
2019	16250	21.8	12	8,030	40	6,420	34										
2045	16500	22.5	13	9,020	46	7,760	40	5,860	33								
2083	16750	23.1	13	9,760	50	8,630	45	7,360	40								
2099	16875	23.5	14	10,200	54	9,180	49	7,940	43	6,200	36						
2110	17000	23.9	14	10,600	56	9,640	52	8,500	47	7,060	40						
2131	17125	24.2	14	11,000	58	10,000	51	8,910	49	7,630	43	5,500	34				
2147	17250	24.6	14	11,400	62	10,500	58	9,440	52	8,200	46	6,650	40				
2170	17500	25.3	15	12,000	66	11,200	64	10,200	58	9,150	52	7,970	47	3,040	26		
2211	17750	26.0	16	12,700	74	11,900	68	11,000	64	10,100	58	9,000	52	7,780	47	5,360	36
2240	18000	26.8	16	13,300	78	12,600	74	11,700	70	10,800	66	10,000	60	8,900	54	7,540	48
2300	18500	28.2	18	14,600	90	13,900	86	13,100	82	12,400	78	11,600	72	10,600	68	9,570	62
2360	19000	29.8	19	15,800	105	15,400	98	14,400	91	13,800	90	12,900	86	12,200	80	11,400	76
2420	19500	31.4	21					15,700	110	15,000	105	14,300	98	13,600	94	12,800	90
2480	20000	33	22											14,900	110	14,300	105

Double Inlet

No.7 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2245	18125	27.2	17	6,340	42												
2260	18250	27.5	17	7,200	47												
2285	18375	27.8	17	7,930	52	5,420	39										
2300	18500	28.3	18	8,550	54	6,900	47										
2315	18625	28.6	18	9,120	60	7,780	52	4,900	38								
2330	18750	29.0	18	9,600	62	8,340	56	6,560	47								
2360	10000	29.8	19	10,500	70	9,500	64	8,260	58	6,100	46						
2390	19250	30.6	20	11,400	78	10,500	72	9,370	66	8,100	58	5,580	45				
2420	19500	31.4	21	12,100	84	11,300	80	10,400	74	9,230	66	7,950	60				
2435	19625	31.8	21	12,500	88	11,700	82	10,800	78	9,820	72	8,630	64	6,870	54		
2450	19750	32.2	21	12,800	92	12,100	86	11,200	80	10,200	74	9,200	68	7,780	60		
2465	19875	32.6	22	13,200	96	12,500	90	11,600	84	10,800	78	9,680	72	8,480	65	6,420	52
2480	20000	33.0	22	13,500	98	12,900	94	12,100	88	11,200	82	10,200	76	9,100	70	7,580	60
2544	20500	34.7	24			14,200	110	13,500	105	12,800	98	12,000	92	11,100	86	10,200	82
2608	21000	36.4	26									13,500	110	12,800	105	11,900	96

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2496	20125	33.5	23	6,340	54												
2512	20250	33.9	23	7,500	62												
2528	20375	34.2	21	8,140	66	5,350	48										
2544	20500	34.7	24	9,000	74	7,280	62										
2576	20750	35.5	25	10,000	82	8,840	74	7,100	62								
2608	21000	36.4	26	11,100	92	10,000	84	8,890	76	7,050	64						
2640	21250	37.3	27	12,000	100	11,000	94	10,100	86	8,900	78	6,880	64				
2671	21500	38.2	27	12,800	110	12,100	105	11,200	96	10,100	90	8,930	80	6,790	66		
2703	21750	39.0	28					12,000	105	11,100	98	10,150	92	8,790	82	6,630	66
2735	22000	40.0	29							12,200	110	11,200	100	10,300	94	8,720	82
2798	22500	41.7	31													11,200	105

Double Inlet

No. 8 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1370	13000	13.9	8.2	6,520	19.5												
1400	13250	14.5	8.7	8,020	27												
1430	13500	15.0	9.2	9,410	32	6,780	25										
1455	13750	15.6	9.7	10,600	37	8,560	31										
1470	13875	15.9	9.9	11,100	39	9,350	34	6,380	25								
1485	14000	16.2	10	11,600	41	9,900	36	7,730	30								
1510	14250	16.8	11	12,600	47	11,100	42	9,270	35	6,260	26						
1535	14500	17.4	12	13,600	52	12,200	47	10,600	41	8,560	35						
1550	14625	17.7	12	14,000	54	12,700	50	11,200	44	9,320	38	6,200	28				
1560	14750	18.0	12	14,500	58	13,200	52	11,800	47	10,100	41	7,810	34				
1590	15000	18.6	13	15,300	62	14,000	58	12,800	54	11,300	47	9,440	41	5,840	28		
1610	15250	19.2	13	16,200	68	14,900	64	13,700	58	12,400	54	10,800	47	8,850	40		
1630	15375	19.5	14	16,600	72	15,400	66	14,200	62	12,900	56	11,400	50	9,570	43	6,550	32
1640	15500	19.8	14	17,000	74	15,800	70	14,600	64	13,300	60	12,000	54	10,300	47	7,900	38
1690	16000	21.1	15	18,500	86	17,500	82	16,300	76	15,200	70	14,000	66	12,800	60	11,100	54
1750	16500	22.5	17			19,100	94	18,100	90	17,100	84	15,900	78	14,800	74	13,500	68
1805	17000	23.8	18					19,700	105	18,700	98	17,700	92	16,600	88	15,500	82
1850	17500	25.3	20							20,300	115	19,400	110	18,300	100	17,400	96
1910	18000	26.7	22									20,900	120	20,000	115	19,100	115
1960	18500	28.3	24											21,600	135	20,600	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1670	15750	20.5	15	6,700	35												
1690	16000	21.1	15	9,160	45												
1709	16125	21.5	16	10,100	50	7,030	38										
1722	16250	21.8	16	10,800	54	8,650	45										
1750	16500	22.5	17	12,100	62	10,500	54	7,890	44								
1774	16750	23.1	18	13,100	68	11,500	62	9,900	54								
1787	16875	23.3	18	13,800	72	12,400	66	10,700	58	8,370	48						
1805	17000	23.9	18	14,200	76	13,000	70	11,400	62	9,490	54						
1813	17125	24.2	19	14,800	80	13,500	74	12,000	66	10,300	58	7,420	45				
1826	17250	24.6	19	15,300	84	14,100	78	12,700	70	11,000	62	8,970	51				
1850	17500	25.3	20	16,100	90	15,100	86	13,800	78	12,300	70	10,700	64	8,380	52		
1878	17750	26.0	21	17,100	98	16,000	92	14,800	86	13,500	80	12,100	72	10,500	64	7,230	49
1910	18000	26.8	22	17,900	105	16,900	100	15,800	94	14,600	88	13,400	82	12,000	74	10,100	64
1960	18500	28.2	24	19,700	120	18,700	115	17,600	110	16,600	105	15,500	98	14,300	90	12,900	82
2020	19000	29.8	26	21,300	140	20,100	135	19,400	130	18,500	120	17,400	115	16,500	110	15,400	100
2070	19500	31.4	28					21,100	145	20,200	140	19,300	135	18,400	125	17,300	120
2120	20000	33	30											20,100	145	19,200	140

Double Inlet

No. 8 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1921	18125	27.2	22	8,540	56												
1935	18250	27 5	23	9,700	64												
1948	18375	27 8	23	10,700	70	7,300	52										
1960	18500	28 3	24	11,500	76	9,280	64										
1975	18625	28.6	24	12,300	80	10,500	70	6,600	50								
1988	18750	29 0	25	12,900	84	11,200	76	8,820	62								
2020	19000	29 8	26	14,100	94	12,800	88	11,100	78	8,220	62						
2045	19250	30 6	27	15,300	105	14,100	96	12,600	88	10,900	78	7,500	60				
2070	19500	31 4	28	16,300	115	15,200	105	14,000	100	12,400	90	10,700	80				
2080	19625	31.8	28	16,800	120	15,700	110	14,600	105	13,200	96	11,600	86	9,250	72		
2095	19750	32 2	29	17,300	125	16,200	115	15,100	110	13,800	100	12,400	92	10,500	80		
2105	19875	32 6	29	17,800	130	16,800	120	15,600	115	14,400	105	13,000	98	11,900	88	8,640	72
2120	20000	33 0	30	18,200	135	17,300	125	16,200	120	15,100	110	13,700	105	12,200	94	10,200	82
2173	20500	34.7	32			19,100	145	18,200	140	17,200	130	16,100	125	14,900	115	13,700	110
2225	21000	36.4	34									18,200	150	17,200	140	16,000	130

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	P. H.	Volume C.F.M.	P. H.	Volume C.F.M	H. P.	Volume C.F.M.	H. P.
2134	20125	33 5	30	8,540	72												
2147	20250	33 9	31	10,100	84												
2160	20375	34 2	31	11,000	90	7,200	64										
2173	20500	34 7	32	12,100	98	9,800	84										
2199	20750	35 5	33	13,500	110	11,900	100	9,570	84								
2225	21000	36 4	34	15,000	125	13,500	115	12,000	105	9,490	86						
2252	21250	37 3	36	16,200	135	14,800	125	13,600	115	12,000	105	9,240	86				
2278	21500	38 2	37	17,200	145	16,200	140	15,000	130	13,600	120	12,000	110	9,140	88		
2307	21750	39 0	38					16,200	140	14,900	130	13,600	125	11,800	110	8,920	90
2335	22000	40 0	40							16,400	150	15,100	135	13,800	130	11,700	110
2388	22500	41.7	42													15,100	145

Double Inlet

No. 9 Extra Heavy Gas Blower — Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1240	13000	13 9	11	7,500	27												
1260	13250	14 5	12	10,900	37												
1285	13500	15 0	13	12,800	44	9,200	34										
1310	13750	15 6	13	14,300	50	11,600	42										
1320	13875	15 9	14	15,000	54	12,700	46	8,600	35								
1330	14000	16 2	14	15,700	56	13,400	49	10,500	40								
1355	14250	16 8	15	17,100	64	15,000	56	12,600	48	8,490	36						
1380	14500	17 4	16	18,400	70	16,600	64	14,300	56	11,600	47						
1390	14625	17.7	16	19,000	71	17,300	68	15,250	60	12,700	52	8,120	38				
1405	14750	18 0	16	19,600	78	17,900	72	15,900	64	13,700	56	10,600	46				
1430	15000	18 6	17	20,700	84	19,000	78	17,400	72	15,300	61	12,800	56	7,920	38		
1450	15250	19.2	18	22,000	94	20,300	86	18,700	80	16,900	72	14,700	64	12,500	54		
1465	15375	19 5	19	22,600	96	20,900	90	19,400	84	17,500	76	15,500	68	13,000	58	8,850	44
1475	15500	19 8	19	23,000	100	21,500	94	19,900	86	18,000	80	16,200	72	13,900	64	10,700	52
1530	16000	21 1	21	25,100	115	23,800	110	22,200	105	20,600	96	19,000	88	17,300	82	15,100	72
1575	16500	22 5	23			25,900	130	24,600	120	23,100	115	21,500	105	20,100	100	18,300	92
1620	17000	23 8	25					26,700	140	25,300	130	24,000	125	22,500	120	21,100	110
1670	17500	25 3	27							27,500	155	26,200	145	24,900	140	23,500	130
1720	18000	26 7	29									28,300	165	27,000	160	25,800	150
1770	18500	28 3	32											29,200	180	28,000	175

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
				Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
1504	15750	20 5	20	9,070	47												
1530	16000	21 1	21	12,400	62												
1540	16125	21 5	21	13,700	68	9,530	52										
1552	16250	21 8	22	14,700	72	11,700	62										
1575	16500	22 5	23	16,500	82	14,200	74	10,700	60								
1600	16750	23 1	24	17,800	92	15,700	82	13,400	74								
1612	16875	23.3	24	18,700	98	16,800	90	14,500	78	11,300	64						
1620	17000	23 9	25	19,300	100	17,600	94	15,500	84	12,900	74						
1636	17125	24 2	25	20,000	105	18,200	100	16,300	90	13,900	78	10,100	62				
1648	17250	24 6	26	20,700	110	19,200	105	17,300	96	15,000	84	12,200	72				
1672	17500	25 3	27	21,800	120	20,400	115	18,700	105	16,700	96	14,600	86	11,400	70		
1696	17750	26 0	28	23,200	135	21,700	125	20,100	115	18,300	105	16,400	96	14,200	86	9,800	66
1720	18000	26 8	29	24,300	145	22,900	135	21,400	130	19,800	120	18,200	110	16,200	100	13,700	86
1770	18500	28 2	32	26,700	165	25,300	155	23,900	150	22,600	140	21,100	130	19,400	125	17,500	110
1815	19000	29 8	35	28,900	190	27,600	180	26,300	175	25,100	165	23,700	155	22,400	150	20,900	140
1860	19500	31 4	37					28,600	200	27,400	190	26,100	180	21,900	175	23,400	165
1910	20000	33	40											27,200	200	26,100	190

Double Inlet **Single Width**

No. 9 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1740	18125	27.2	30	11,600	78												
1750	18250	27.5	31	13,200	86												
1760	18375	27.8	31	14,500	94	9,890	72										
1770	18500	28.3	32	15,600	105	12,600	86										
1780	18625	28.6	33	16,600	110	14,200	96	8,940	70								
1790	18750	29.0	33	17,500	115	15,200	105	12,000	86								
1815	19000	29.8	35	19,100	130	17,300	120	15,100	105	11,100	84						
1840	19250	30.6	36	20,700	140	19,100	130	17,100	120	14,800	105	10,200	82				
1860	19500	31.4	37	22,100	155	20,600	145	18,900	135	16,900	120	14,500	110				
1870	19625	31.8	38	22,800	160	21,300	150	19,800	140	17,900	130	15,700	115	12,500	98		
1885	19750	32.2	39	23,400	165	22,000	160	20,500	145	18,700	135	16,800	125	14,200	110		
1899	19875	32.6	40	24,100	175	22,800	165	21,200	155	19,600	145	17,700	130	15,500	120	11,700	98
1910	20000	33.0	40	24,700	180	23,500	170	22,000	160	20,400	150	18,500	140	16,600	125	13,800	110
1950	20500	34.7	43			25,900	200	24,500	190	23,200	180	21,800	170	20,300	160	18,600	150
2000	21000	36.4	47									24,700	200	23,300	190	21,700	175

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1913	20125	33.5	41	11,600	98												
1925	20250	33.9	42	13,700	115												
1937	20375	34.2	43	14,900	120	9,760	88										
1950	20500	34.7	43	16,400	135	13,300	115										
1975	20750	35.5	45	18,300	150	16,200	135	13,000	115								
2000	21000	36.4	47	20,300	170	18,300	155	16,200	140	12,900	115						
2025	21250	37.3	48	21,900	185	20,100	170	18,400	160	16,200	145	12,500	120				
2050	21500	38.2	50	23,300	200	22,000	190	20,300	175	18,500	165	16,300	145	12,400	120		
2075	21750	39.0	52					22,000	195	20,200	180	18,400	165	16,000	150	12,100	120
2100	22000	40.0	54							22,200	200	20,400	185	18,800	175	15,900	150
2150	22500	41.7	58													20,400	195

Double Inlet

No. 10 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1035	13000	13 9	14	9,560	34												
1050	13250	14 5	15	13,900	47												
1070	13500	15 0	16	16,300	56	11,800	43										
1090	13750	15 6	17	18,300	64	14,900	54										
1100	13875	15 9	17	19,200	68	16,200	58	11,100	44								
1110	14000	16 2	18	20,100	72	17,200	64	13,400	52								
1130	14250	16 8	19	21,900	82	19,200	72	16,100	62	10,900	46						
1150	14500	17 4	20	23,600	90	21,200	82	18,300	72	14,900	61						
1160	14625	17 7	20	24,200	94	22,100	86	19,400	76	16,200	66	10,800	48				
1170	14750	18 0	21	25,100	100	22,900	92	20,400	82	17,500	72	13,600	58				
1190	15000	18 6	22	26,500	110	24,300	100	22,200	92	19,500	82	16,400	70	10,100	49		
1210	15250	19 2	23	28,100	120	25,900	110	23,900	100	21,600	92	18,700	82	15,400	70		
1220	15375	19 5	24	28,900	125	26,700	115	24,800	105	22,400	96	19,800	86	16,600	75	11,300	56
1230	15500	19 8	24	29,500	130	27,500	120	25,400	110	23,100	105	20,800	92	17,800	80	13,700	66
1270	16000	21 1	26	32,100	150	30,400	140	28,400	130	26,400	120	24,200	115	22,100	105	19,300	92
1310	16500	22 5	29			33,200	165	31,500	155	29,600	145	27,500	135	25,700	130	23,400	115
1350	17000	23 8	32					34,200	180	32,400	170	30,700	160	28,800	150	27,000	145
1390	17500	25 3	35							35,200	195	33,500	185	31,800	175	30,100	170
1430	18000	26 7	38									36,100	210	34,600	205	33,100	195
1470	18500	28 3	41											37,400	230	35,800	225

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 22" Water 12.7 ozs. per sq. inch		Static Pressure 23" Water 13.3 ozs. per sq. inch		Static Pressure 24" Water 13.9 ozs. per sq. inch		Static Pressure 25" Water 14.5 ozs. per sq. inch		Static Pressure 26" Water 15.0 ozs. per sq. inch		Static Pressure 27" Water 15.6 ozs. per sq. inch		Static Pressure 28" Water 16.2 ozs. per sq. inch	
1250	15750	20 5	25	11,600	60												
1270	16000	21 1	26	15,900	78												
1280	16125	21 5	27	17,600	88	12,200	66										
1290	16250	21 8	28	18,800	94	15,000	78										
1310	16500	22 5	29	21,000	105	18,100	94	13,700	76								
1330	16750	23 1	30	22,800	120	20,200	105	17,200	94								
1340	16875	23 3	31	23,900	125	21,400	115	18,600	100	14,500	82						
1350	17000	23 9	32	24,600	130	22,500	120	19,900	110	16,500	94						
1360	17125	24 2	32	25,600	140	23,300	125	20,800	115	17,800	100	12,900	78				
1370	17250	24 6	33	26,500	145	24,500	135	22,100	120	19,200	110	15,600	92				
1390	17500	25 3	35	28,000	155	26,100	145	23,900	135	21,400	125	18,600	110	14,500	90		
1410	17750	26 0	36	29,600	170	27,800	160	25,700	150	23,500	135	21,000	125	18,200	110	12,500	84
1430	18000	26 8	38	31,100	185	29,400	175	27,400	165	25,400	150	23,300	140	20,800	130	17,600	110
1470	18500	28 2	41	34,100	210	32,400	200	30,600	190	28,800	180	27,000	170	24,800	155	22,400	145
1510	19000	29 8	44	37,000	245	35,300	230	33,700	220	32,100	210	30,300	200	28,500	190	26,700	180
1550	19500	31 4	48					36,600	225	35,100	245	33,400	230	31,800	220	30,000	210
1590	20000	33	52											34,800	255	33,300	240

Double Inlet

No. 10 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 29" Water 16.8 ozs. per sq. inch		Static Pressure 30" Water 17.3 ozs. per sq. inch		Static Pressure 31" Water 17.9 ozs. per sq. inch		Static Pressure 32" Water 18.5 ozs. per sq. inch		Static Pressure 33" Water 19.1 ozs. per sq. inch		Static Pressure 34" Water 19.7 ozs. per sq. inch		Static Pressure 35" Water 20.2 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1440	18125	27.2	38	14,800	98												
1450	18250	27.5	39	16,800	110												
1460	18375	27.8	40	18,500	120	12,700	92										
1470	18500	28.3	41	20,000	130	16,100	110										
1480	18625	28.6	42	21,300	140	18,200	125	11,400	88								
1490	18750	29.0	43	22,400	145	19,500	130	15,300	110								
1510	19000	29.8	44	24,500	165	22,200	150	19,300	135	14,300	105						
1530	19250	30.6	46	26,500	180	24,400	170	21,900	155	18,900	135	13,000	105				
1550	19500	31.4	48	28,200	195	26,300	185	24,200	170	21,600	155	18,500	140				
1560	19625	31.8	49	29,100	205	27,200	195	25,300	180	22,900	165	20,200	150	16,000	125		
1570	19750	32.2	50	29,900	215	28,100	200	26,200	190	23,900	175	21,500	160	18,200	140		
1580	19875	32.6	50	30,800	225	29,100	210	27,100	200	25,100	185	22,600	170	19,800	150	15,000	125
1590	20000	33.0	52	31,500	230	30,000	220	28,100	205	26,000	195	23,700	180	21,300	165	17,700	140
1630	20500	34.7	56			33,100	255	31,500	240	29,800	230	27,900	215	25,900	205	23,800	190
1670	21000	36.4	60									31,600	255	29,800	240	27,800	225

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 36" Water 20.8 ozs. per sq. inch		Static Pressure 37" Water 21.4 ozs. per sq. inch		Static Pressure 38" Water 22.0 ozs. per sq. inch		Static Pressure 39" Water 22.5 ozs. per sq. inch		Static Pressure 40" Water 23.1 ozs. per sq. inch		Static Pressure 41" Water 23.7 ozs. per sq. inch		Static Pressure 42" Water 24.3 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1600	20125	33.5	52	14,800	125												
1610	20250	33.9	54	17,500	145												
1620	20375	34.2	54	19,000	155	12,500	115										
1630	20500	34.7	56	21,000	170	17,000	145										
1650	20750	35.5	58	23,300	195	20,600	175	16,600	145								
1670	21000	36.4	60	26,000	215	23,300	195	20,800	180	16,400	150						
1690	21250	37.3	62	28,100	235	25,700	215	23,500	205	20,800	185	16,000	150				
1710	21500	38.2	64	29,800	255	28,100	240	26,000	225	23,600	210	20,800	190	15,800	155		
1730	21750	39.0	66					28,100	245	25,900	230	23,600	215	20,500	190	15,500	155
1750	22000	40.0	68							28,400	255	26,100	235	24,000	220	20,400	195
1790	22500	41.7	71													26,100	250

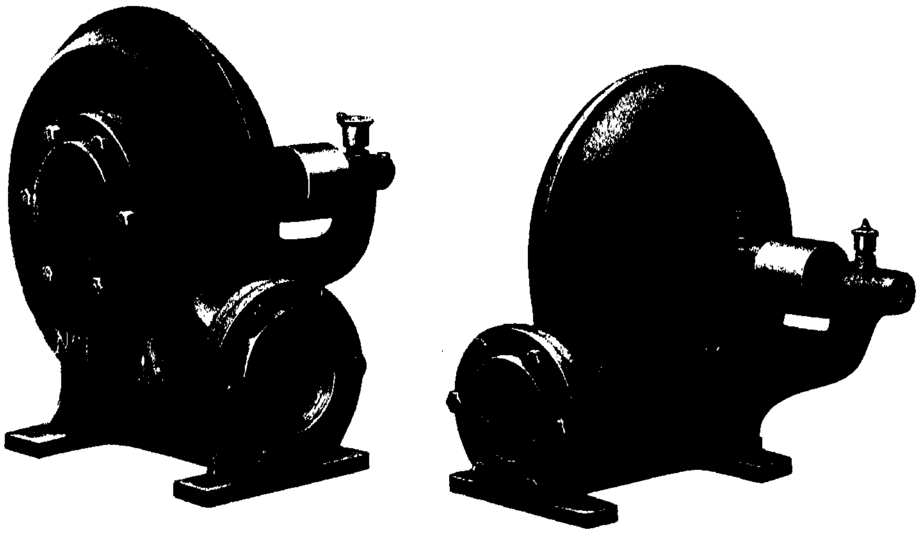
EXTRA HEAVY GAS EXHAUSTERS OR BOOSTERS

Cast Iron Fan Type

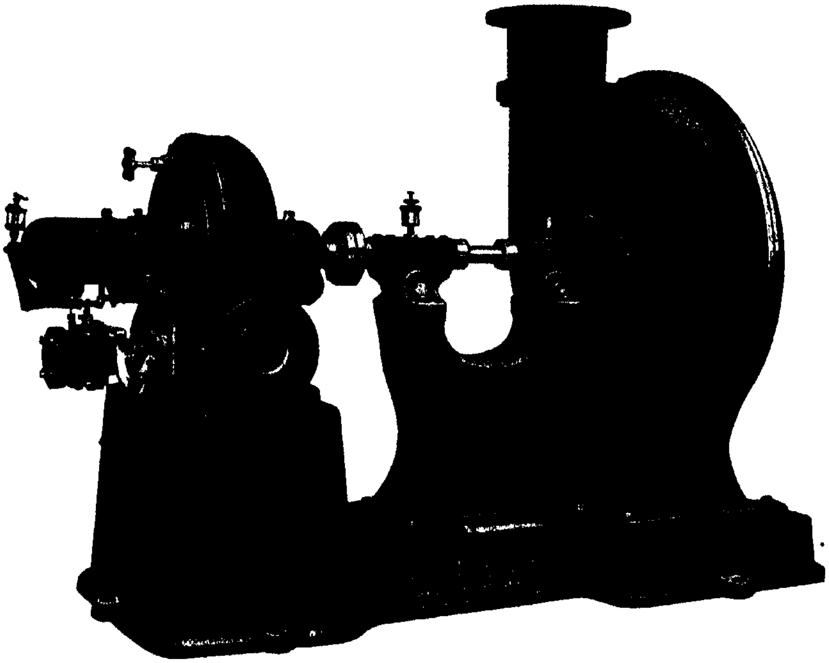
Design 2

Dimensions, Capacities, Horse Powers

Extra Heavy Gas Exhauster or Booster—Design 2

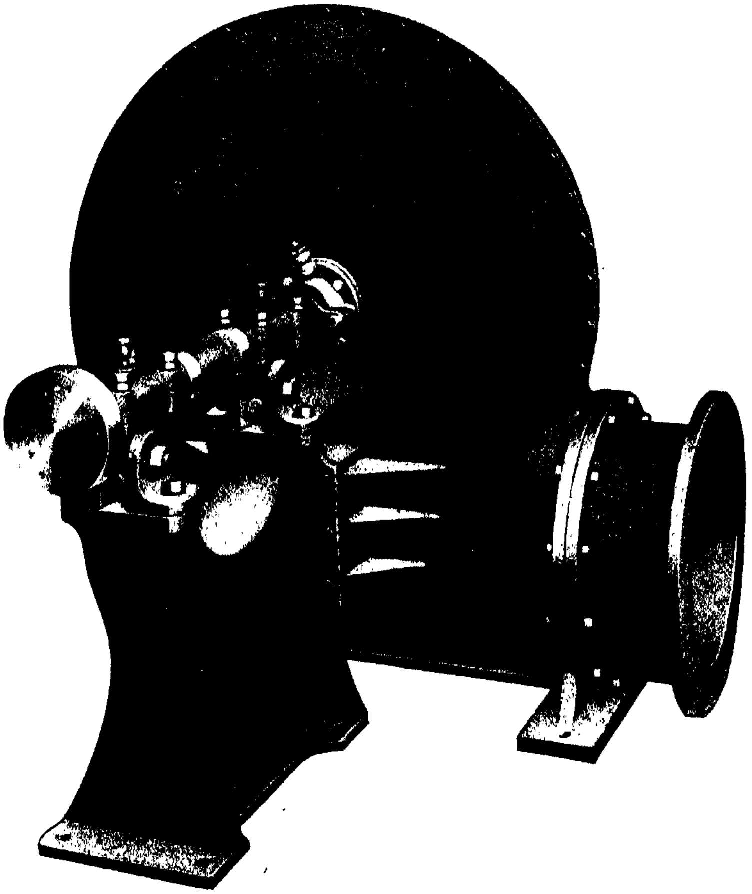


Gas Boosters of Sizes 00, 0 and 1, made as above—Design 2, Form M

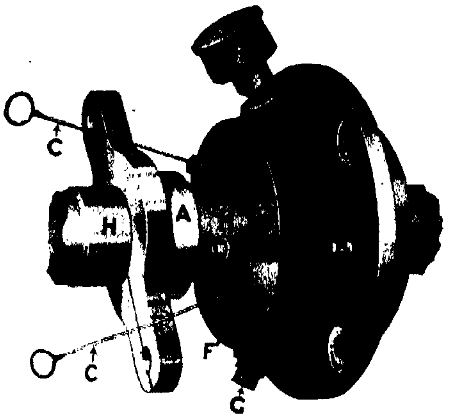


Gas Exhauster—Design 2, Form P

Extra Heavy Gas Exhauster or Booster—Design 2



No. 7 Gas Booster—Design 2, Form M



Stuffing Box used on
Sturtevant Gas Exhauster and Booster

EXTRA HEAVY GAS EXHAUSTER—DESIGN 2, FORM "M"

SPECIFICATIONS

General. There shall be furnished a number ....Design 2 Form M Sturtevant Fan Type Gas Exhauster, single inlet, single width, ...hand . . .discharge, full housing. Total height of the exhauster housing shall be approximately.. ...inches; width of the exhauster in direction of the shaft approximately.. .inches; length transverse to the shaft approximately ......inches. Exhauster shall have capacity of ....cubic feet of gas per minute measured at atmospheric pressure, when handling gas, specific gravity of........as, assuming the specific gravity of air as 1, against a total resistance of......inches of water gauge, either at the inlet or at the outlet (or at both, taking the sum). Exhauster shall operate at approximately........R. P. M., requiring approximately......horsepower.

Housing. Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together. Casing shall be split on a plane, at right angles to the shaft. Exhauster shall be supported by heavy cast-iron feet cast integral with the fan casing. Outlets shall be......inches internal diameter and shall be flanged and drilled to fit standard gas pipe. Inlets also shall be flanged, drilled, and tapped to fit standard gas pipe. Housing shall be provided with foundation pieces which are to be machined and with bearing brackets which shall be securely bolted to the side of the casing.

Bearings. The bearings shall be of the chair box type, provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support; and shall be lined with best quality babbitt metal containing upwards of 85 per cent. tin, bored and scraped to exact size.

Shaft. Shaft shall be made from a steel forging carefully turned, and after keyways are cut, shall be accurately ground and polished.

Stuffing Boxes. Fan shall be provided with stuffing boxes where the shaft passes through the fan casing on the side opposite the inlet. This stuffing box shall be provided with suitable packing, and shall be so designed that packing may be thoroughly lubricated.

Wheels. The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates, which shall also be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made for sizes 3 and 5 of malleable iron, and for sizes 7, 9, and 11 of cast iron with steel T-arms. Hub shall be accurately bored and fitted to the shaft. Wheel shall be carefully balanced.

EXTRA HEAVY GAS EXHAUSTER—DESIGN 2
FORM "P"

SPECIFICATIONS

General. There shall be furnished a number ....Design 2 Form P Sturtevant Fan Type Gas Exhauster, single inlet, single width, ... hand ....discharge, full housing. Total height of the fan housing shall be approximately .....inches; width of the fan in direction of the shaft approximately . . .inches; length transverse to the shaft approximately . . inches. Exhauster shall have capacity of . . .cubic feet of gas per minute measured at atmospheric pressure, when handling gas, specific gravity of . . . .as compared to air at specific gravity 1, against a total resistance of. . . . .inches of water gauge, either at the inlet or at the outlet (or at both taking the sum). Exhauster shall operate at approximately........R. P. M., requiring approximately........horsepower.

Housing. Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together. Casing shall be split on a plane, at right angles to the shaft. Fan shall be supported by heavy cast-iron feet cast integral with the fan casing. Outlet shall be......inches internal diameter, and shall be flanged and drilled to fit standard gas pipe. Inlets also shall be flanged, drilled and tapped to fit standard gas pipe. Housing shall be provided with foundation pieces which are to be machined and to which shall be securely bolted bearing brackets, which are to extend to the same level as the feet and be provided with bolt holes.

Bearings. The bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support, and shall be lined with best quality babbitt metal containing upwards of 85 per cent. tin, bored and scraped to exact size.

Shaft. Shaft shall be made from a steel forging carefully turned, and after keyways are cut, shall be accurately ground and polished.

Stuffing Boxes. Fan shall be provided with stuffing boxes where the shaft passes through the fan casing on the side opposite the inlet. This stuffing box shall be provided with suitable packing and shall be so designed that packing may be thoroughly lubricated.

Wheels. The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates which shall also be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made in size 4 of malleable iron, and for sizes 6, 8, and 10 of cast iron having cast integral with it and radiating from it steel arms of T-section. Hub shall be accurately bored and fitted to shaft. To the outer end of the arms, the steel blades should be accurately riveted. Wheel shall be carefully balanced.

Extra Heavy Gas Exhauster, Cast Iron Fan Type—Design 2

APPROXIMATE WEIGHTS

Design 2, Form M, Cast Iron Shells

Size	
00	55
0	86
1	110
3	300
5	630
7	1500
9	2900
11	4000

Design 2, Form P, Cast Iron Shells

Size	
4	450
6	950
8	2000
10	4000

Dimensions Standard Flanged Gas Pipes

as recommended by the American Gas Institute

Nominal Diameter, inches	Actual inside Diameter, inches	Diameter of Flange	Diameter of Bolt Circle	Number of Bolts	Size of Bolts
3	3.00	7.625	5.625	4	$\frac{1}{2}$
4	4.00	9.000	7.125	4	$\frac{5}{8}$
6	6.04	11.000	9.125	4	$\frac{5}{8}$
8	8.15	13.000	11.125	8	$\frac{5}{8}$
10	10.12	16.000	13.750	8	$\frac{5}{8}$
12	12.12	18.000	15.750	8	$\frac{5}{8}$
16	16.16	22.500	20.000	12	$\frac{3}{4}$
20	20.24	27.000	24.500	16	$\frac{3}{4}$
24	24.28	31.000	28.500	16	$\frac{3}{4}$
30	30.04	37.500	35.000	20	$\frac{7}{8}$

Extra Heavy Gas Exhausters or Boosters
Cast Iron Fan Type—Design 2

EXLPANATION OF TABLES

The capacities of these fans are based upon gas weighing .045 lbs. per cubic foot.

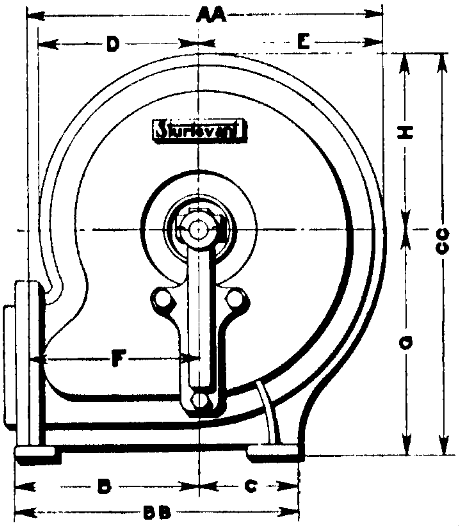
Other than the above exception the general explanation of tables at the front of this book applies.

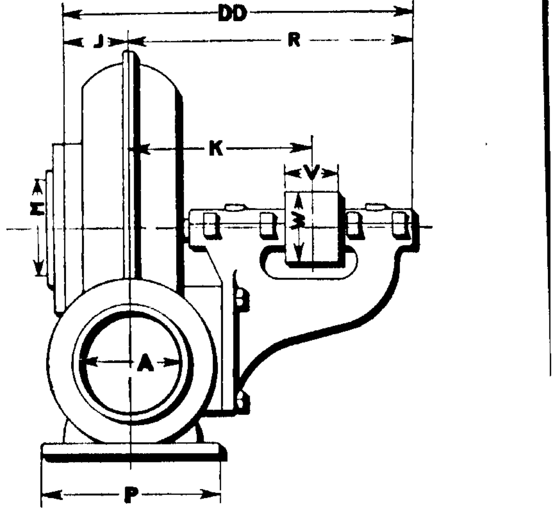
Single Inlet

Extra Heavy Gas Exhauster or Booster—Design 2, Form M

Single Width

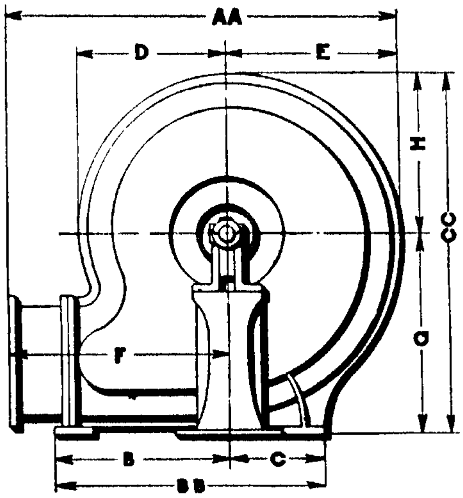
Full Housing **Bottom Horizontal Discharge** **Overhung Wheel**

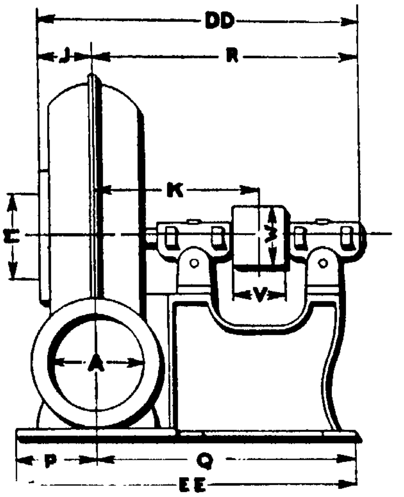




Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	R	V	W	AA	BB	CC	DD	Wheel Diameter	Shaft Diameter	Anchor Bolts
00	2½	7	3	6⅛	6⅝	6⅛	7⅞	6¾	2¼	6	2½	6½	9¾	1⅞	2¾	13	10	14¼	12	8¼	¾	¼
0	3	8⅜	3⅝	7⅛	7⅞	7⅞	9	7½	2⅝	7¼	3	7¾	11⅞	2½	3	15¾	12¼	16½	14½	9¾	13/16	¼
1	4	9	4½	7¾	9	8⅛	10¼	8⅛	3	8¾	4	8¼	13 9/16	2⅝	3½	17⅛	13½	19⅛	16 9/16	10⅞	⅞	⅜

Inlet and outlet connections on the above gas boosters are provided with cast-iron companion flanges tapped for standard gas pipes of sizes indicated in column "A".





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
3	8	13	7	10¾	12¾	15¾	14¾	11¾	4 3/16	13¼	8	6	22	22⅝	4½	5	28½	20	26½	26 13/16	28	16	1⅜	½
5	12	17½	9½	14⅞	17⅝	22	20	16½	5½	16⅜	10	8½	26⅜	27⅛	5½	7	39⅝	27	36¼	32⅝	34⅞	21½	1½	⅝
7	16	23⅝	12¾	20	24	29⅜	28	22	8½	22¾	16	12	34⅞	36¾	10	8	53⅜	36⅝	50	45	46⅞	30¾	1 11/16	¾
9	20	30⅜	16½	26	31½	37½	37	28¾	11	27½	20	15⅜	41	43¾	12½	12	68¾	46⅞	65¾	54¾	56⅝	40	2 7/16	⅞
11	24	34¾	21¾	31½	37½	43½	43	34½	12	25½	24	18⅛	41	41⅞	14½	14	81	56½	77½	53⅞	59⅛	48	2 11/16	1

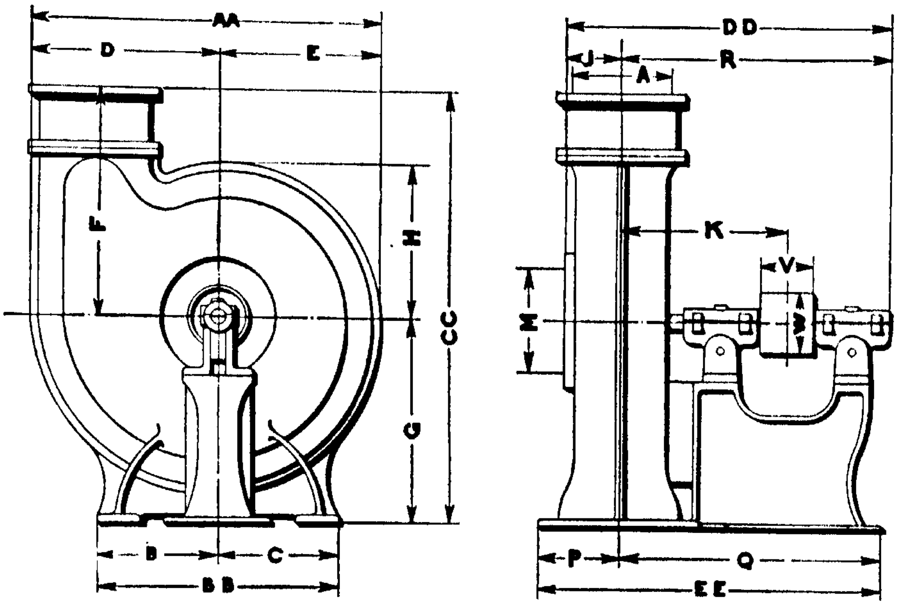
Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See table on page 732.

Single Inlet

Extra Heavy Gas Exhauster or Booster—Design 2, Form M

Single Width

Full Housing **Up Blast Discharge** **Overhung Wheel**



Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Wheel Diameter	Shaft Diameter	Anchor Bolts
3	8	8½	8½	13¾	11¾	15¾	15¼	10¾	4 3/16	13¾	8	6	22	22⅜	4½	5	25½	17	31	26 13/16	28	16	1⅜	½
5	12	12¾	12¾	19	16½	22	20¼	14¾	5½	16⅝	10	8¼	26⅜	27⅛	5½	7	35¼	24½	42¼	32⅝	34¾	21½	1½	⅝
7	16	16	16	26	22	29⅝	27¾	20	8½	22¾	16	12	34¾	36¾	10	8	48	32	57½	45	46¾	30¾	1 11/16	¾
9	20	20¾	20¼	34½	28¾	37½	35½	26	11	27½	20	15⅝	41	43¾	12½	12	63	40½	72¾	54¾	56⅝	40	2 7/16	⅞
11	24	23½	23½	40½	34½	43½	39⅝	31½	12	25½	24	18⅝	39	41¾	14½	14	75	47	83¼	53¾	57½	48	2 15/16	1

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See table on page 732.

Single Inlet No. 00 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width

When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S. N. D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.84 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
2310	5000	1.16	.02	63	.020										
2430	5250	1.27	.02	79	.026										
2540	5500	1.40	.02	92	.032										
2660	5750	1.53	.02	105	.039										
2780	6000	1.66	.03	116	.045										
2890	6250	1.81	.03	126	.053										
3010	6500	1.95	.04	136	.060	45	.040								
3120	6750	2.11	.04	145	.071	65	.040								
3240	7000	2.27	.04	155	.080	84	.051								
3360	7250	2.43	.05	164	.088	99	.060								
3470	7500	2.61	.05	173	.096	113	.075								
3580	7750	2.78	.06	181	.110	126	.084								
3700	8000	2.96	.07	190	.120	137	.098	56	.070						
3820	8250	3.15	.07	198	.135	149	.110	81	.075						
3930	8500	3.34	.08	203	.145	160	.125	98	.085						
4050	8750	3.54	.09	215	.155	170	.140	115	.100						
4170	9000	3.74	.09	224	.175	180	.155	132	.120						
4280	9250	3.96	.10	232	.185	190	.170	142	.140	65	.100				
4400	9500	4.17	.11	241	.205	200	.190	155	.155	91	.110				
4510	9750	4.40	.12	250	.220	210	.205	167	.180	111	.135				
4630	10000	4.62	.13	258	.240	220	.220	178	.200	127	.160				
4750	10250	4.86	.14	265	.260			190	.220	142	.180	61	.140		
4860	10500	5.10	.15	274	.285			201	.240	156	.205	92	.140		
4980	10750	5.34	.16	282	.305			211	.260	169	.225	114	.170		
5090	11000	5.58	.17	290	.330			222	.285	181	.250	130	.200		
5200	11250	5.84	.18	299	.350			232	.310	193	.275	146	.285	65	.180
5320	11500	6.12	.20	306	.380			243	.335	205	.305	161	.255	100	.200
5440	11750	6.36	.21	314	.400			253	.360	216	.330	174	.282	120	.210
5550	12000	6.66	.22	329	.450			270	.405	237	.365	197	.335	152	.275

Single Inlet No. 0 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width

When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S. N. D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.84 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch	
				Volume C.F.M.	H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1960	5000	1.16	.02	91	.028										
2050	5250	1.27	.03	114	.037										
2150	5500	1.40	.03	137	.046										
2250	5750	1.53	.04	151	.055										
2350	6000	1.66	.04	166	.065										
2440	6250	1.81	.05	185	.076										
2540	6500	1.95	.05	195	.088	65	.044								
2640	6750	2.11	.06	209	.100	94	.056								
2740	7000	2.27	.06	223	.115	122	.074								
2840	7250	2.43	.07	236	.125	143	.087								
2940	7500	2.61	.08	249	.140	163	.105								
3030	7750	2.78	.09	261	.155	181	.120								
3130	8000	2.96	.10	273	.170	198	.140	80	.079						
3230	8250	3.15	.11	285	.190	215	.160	117	.105						
3330	8500	3.34	.12	294	.205	230	.180	142	.125						
3420	8750	3.54	.13	310	.225	245	.200	166	.145						
3520	9000	3.74	.14	323	.250	260	.225	190	.170						
3620	9250	3.96	.15	336	.270	274	.250	205	.205	95	.120				
3720	9500	4.17	.16	348	.295	289	.275	223	.225	131	.157				
3810	9750	4.40	.17	360	.320	303	.300	241	.255	160	..195				
3910	10000	4.62	.19	371	.350	317	.320	257	.285	183	.225				
4010	10250	4.86	.20	382	.380			274	.315	205	.255	90	.160		
4110	10500	5.10	.22	394	.410			290	.345	225	.295	133	.200		
4210	10750	5.34	.23	407	.440			304	.380	244	.325	164	.245		
4300	11000	5.58	.25	418	.480			320	.410	261	.360	188	.285		
4400	11250	5.84	.27	430	.510			334	.445	278	.395	210	.325	95	.200
4500	11500	6.12	.28	441	.540			350	.480	295	.435	232	.370	145	.250
4600	11750	6.36	.30	453	.580			364	.520	311	.470	251	.405	173	.300
4700	12000	6.66	.32	474	.650			390	.580	342	.540	284	.485	220	.400

Single Inlet No. 1 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width

When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.M.P.	S. N. D. in inches	S. N. D. H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.84 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch	
1760	5000	1.16	.03	162	.050										
1840	5250	1.27	.04	203	.065										
1930	5500	1.40	.04	235	.081										
2020	5750	1.53	.05	268	.100										
2100	6000	1.66	.06	295	.115										
2190	6250	1.81	.06	322	.135										
2280	6500	1.95	.07	347	.155	115	.080								
2370	6750	2.11	.08	372	.180	167	.100								
2460	7000	2.27	.09	396	.205	216	.130								
2550	7250	2.43	.10	419	.225	253	.155								
2630	7500	2.61	.11	442	.245	289	.190								
2720	7750	2.78	.12	463	.275	321	.215								
2810	8000	2.96	.14	485	.305	351	.250	142	.140						
2900	8250	3.15	.15	507	.335	382	.285	208	.185						
2980	8500	3.34	.17	530	.365	410	.320	252	.220						
3070	8750	3.54	.18	550	.400	436	.355	294	.260						
3160	9000	3.74	.19	573	.440	462	.400	337	.305						
3250	9250	3.96	.21	594	.480	487	.440	364	.365	167	.215				
3330	9500	4.17	.23	617	.520	512	.490	396	.400	233	.280				
3420	9750	4.40	.25	640	.560	538	.530	427	.455	285	.350				
3510	10000	4.62	.27	660	.620	563	.580	456	.510	325	.405				
3600	10250	4.86	.29	680	.670			486	.550	365	.460	157	.285		
3690	10500	5.10	.31	700	.730			513	.610	400	.520	236	.360		
3780	10750	5.34	.33	720	.780			540	.660	430	.580	290	.435		
3860	11000	5.58	.35	744	.840			568	.730	460	.640	335	.510		
3950	11250	5.84	.38	762	.900			593	.790	495	.710	375	.580	167	.350
4040	11500	6.12	.40	782	.950			620	.860	525	.780	415	.690	255	.445
4150	11750	6.36	.43	805	1.050			645	.950	550	.840	445	.720	310	.530
4250	12000	6.66	.46	842	1.150			690	1.050	605	.900	505	.860	390	.710

Single Inlet No. 3 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S. N. D. H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1'' Water .578 ozs. per sq. inch		Static Pressure 2'' Water 1.16 ozs. per sq. inch		Static Pressure 3'' Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5'' Water 2.89 ozs. per sq. inch		Static Pressure 6'' Water 3.47 ozs. per sq. inch	
1193	5000	1.16	0.06	571	0.175										
1252	5250	1.27	0.07	716	0.230										
1312	5500	1.40	0.09	830	0.285										
1371	5750	1.53	0.10	945	0.350										
1431	6000	1.66	0.11	1,040	0.405										
1491	6250	1.81	0.13	1,140	0.475										
1550	6500	1.95	0.14	1,230	0.55	405	0.275								
1610	6750	2.11	0.16	1,310	0.64	590	0.350								
1670	7000	2.27	0.18	1,390	0.72	762	0.460								
1730	7250	2.43	0.20	1,480	0.80	893	0.54								
1790	7500	2.61	0.22	1,560	0.87	1,020	0.67								
1850	7750	2.78	0.24	1,640	0.98	1,140	0.76								
1910	8000	2.96	0.26	1,710	1.05	1,240	0.89	500	0.49						
1970	8250	3.15	0.29	1,790	1.20	1,350	1.00	731	0.65						
2030	8500	3.34	0.32	1,840	1.30	1,440	1.10	896	0.78						
2090	7750	3.54	0.35	1,940	1.40	1,540	1.25	1,040	0.92						
2150	9000	3.74	0.38	2,020	1.55	1,630	1.40	1,190	1.10						
2210	9250	3.96	0.41	2,100	1.70	1,710	1.55	1,280	1.30	590	0.76				
2270	9500	4.17	0.44	2,180	1.85	1,810	1.70	1,400	1.40	823	0.98				
2330	9750	4.40	0.48	2,260	2.00	1,900	1.85	1,510	1.60	1,010	1.25				
2385	10000	4.62	0.52	2,320	2.20	1,990	2	1,610	1.80	1,150	1.45				
2445	10250	4.86	0.56	2,400	2.35			1,720	1.95	1,280	1.65	553	1.00		
2505	10500	5.10	0.60	2,470	2.55			1,810	2.15	1,410	1.85	832	1.25		
2570	10750	5.34	0.64	2,550	2.75			1,910	2.35	1,530	2.00	1,030	1.55		
2622	11000	5.58	0.69	2,620	3.00			2,000	2.60	1,670	2.25	1,180	1.80		
2685	11250	5.84	0.74	2,690	3.15			2,100	2.80	1,740	2.50	1,320	2.00	590	1.25
2742	11500	6.12	0.79	2,760	3.40			2,190	3.00	1,850	2.75	1,450	2.30	906	1.55
2802	11750	6.36	0.84	2,840	3.60			2,280	3.25	1,950	2.95	1,570	2.55	1,090	1.85
2860	12000	6.66	0.89	2,970	4.05			2,440	3.65	2,150	3.3	1,780	3.05	1,380	2.5

Single Inlet

No. 5 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P
				Static Pressure 1″ Water .578 ozs. per sq. inch		Static Pressure 2′ Water 1.16 ozs. per sq. inch		Static Pressure 3″ Water 1.73 ozs. per sq. inch		Static Pressure 4″ Water 2.31 ozs. per sq. inch		Static Pressure 5″ Water 2.89 ozs. per sq. inch		Static Pressure 6″ Water 3.47 ozs. per sq. inch		Static Pressur 7″ Water 4.05 ozs. per sq. inch	
888	5000	1 19	.06	1,060	280												
933	5250	1 31	.07	1,220	.345												
977	5500	1 14	.08	1,360	.42												
1021	5750	1 57	09	1,500	50												
1065	6000	1 71	10	1,630	59												
1110	6250	1 86	.11	1,750	.68												
1155	6500	2 00	.13	1,870	79	992	48										
1200	6750	2 16	.14	1,990	92	1,250	62										
1245	7000	2 33	.16	2,100	1 05	1,440	.75										
1290	7250	2 50	.18	2,220	1 20	1,610	88										
1330	7500	2.67	.19	2,320	1 30	1,770	1 00										
1375	7750	2 85	.21	2,430	1 45	1,910	1 15	862	.59								
1421	8000	3.04	24	2,540	1 65	2,040	1.3	1,270	.93								
1465	8250	3 23	26	2,640	1 80	2,180	1.5	1,530	1 15								
1510	8500	3 43	.28	2,750	2 00			1,720	1 30								
1555	8750	3 64	31	2,850	2 20			1,900	1.40								
1600	9000	3.85	.34	2,960	2 40			2,050	1.70	1,140	1 15						
1640	9250	4.07	.36	3,060	2 60			2,200	1.95	1,490	1.45						
1680	9500	4.28	.39	3,160	2.85			2,340	2.15	1,740	1.70						
1730	9750	4.51	.43	3,260	3 10			2,470	2 40	1,940	2 00						
1770	10000	4.75	.46	3,370	3 40			2,610	2 65	2,120	2.20	1,110	1 40				
1820	10250	4.98	.49	3,470	3 65			2,740	2 85	2,270	2 50	1,530	1.85				
1860	10500	5.23	.53	3,570	3 95					2,430	2.80	1,830	2.25				
1910	10750	5 48	.57	3,670	4 30					2,570	3 05	2,050	2.55				
1950	11000	5.74	.61	3,760	4 60					2,710	3 35	2,250	2.90	1,260	1.90		
2000	11250	6 00	.66	3,870	4 95					2,850	3 65	2,410	3.20	1,720	2.50		
2040	11500	6.28	.70	3,960	5.3					2,980	4 05	2,570	3 55	2,000	2.95		
2085	11750	6 56	.75	4,070	5.7					3,120	4.35	2,710	3 90	2,220	3 35		
2130	12000	6.84	.79	4,170	6 2							2,880	4 25	2,410	3 70	1,660	2.
2220	12500	7.42	.90	4,370	7 0							3,150	5 0	2,760	4.5	2,230	3.
2310	13000	8 00	1 0	4,560	7.9							3,420	5 8	3,050	5 3	2,620	4.
2390	13500	8.65	1.1	4,750	9									3,340	6.2	2,980	5
2480	14000	9 32	1.3	4,940	10									3,600	7.1	3,280	6.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.
				Static Pressure 8″ Water 4.63 ozs. per sq. inch		Static Pressure 9″ Water 5.2 ozs. per sq. inch		Static Pressure 10″ Water 5.78 ozs. per sq. inch		Static Pressure 11″ Water 6.36 ozs. per sq. inch		Static Pressure 12″ Water 6.93 ozs. per sq. inch		Static Pressure 13″ Water 7.59 ozs. per sq. inch		Static Pressu 14″ Water 8.08 ozs. pe sq. inch	
2270	12750	7 73	.95	1,670	3.25												
2310	13000	8.00	1 0	1,990	3.85												
2350	13250	8.33	1.1	2,280	4.45												
2390	13500	8.63	1 2	2,450	5 0	1,660	3.7										
2440	13750	9.00	1.2	2,740	5 6	2,100	4.6										
2480	14000	9.32	1.3	2,890	6.0	2,380	5.2										
2530	14250	9.65	1.4	3,070	6 5	2,610	5 8	1,790	4.4								
2570	14500	9 98	1.4	3,230	7 1	2,830	6.4	2,140	5.2								
2620	14750	10.35	1.5	3,380	7.6	3,010	7.0	2,510	6.1								
2660	15000	10.70	1.5	3,540	8 2	3,190	7.6	2,740	6.8	1,980	5.3						
2710	15250	11 05	1 6	3,670	8 8	3,340	8.1	2,950	7.4	2,370	6.4						
2750	15500	11.40	1.7	3,820	9 3	3,500	8 8	3,130	8.0	2,640	7 1	1,720	5 2				
2800	15750	11 80	1.8	3,900	10 0	3,650	9.4	3,310	8.7	2,880	7 9	2,200	6 4				
2840	16000	12 18	1.9	4,090	10.5	3,800	10.0	3,470	9.3	3,080	8.5	2,550	7 4				
2880	16250	12 55	2.0	4,230	11	3,940	10.5	3,640	10 0	3,290	9 2	2,840	8 3	2,040	6 0		
2920	16500	12 95	2.0	4,370	12	4,080	11 5	3,790	10 5	3,460	10.0	3,060	9.1	2,490	7.9		
2970	16750	13.32	2 2			4,230	12 0	3,950	11.5	3,630	10 5	3,270	9.9	2,770	8.8	1,875	6
3020	17000	13.75	2 3			4,370	13.0	4,090	12.0	3,790	11.5	3,460	10 5	3,040	9 7	2,370	8
3070	17250	14 14	2 4			4,500	13.5	4,230	13.0	3,950	12.0	3,600	11 5	3,240	10.5	2,720	9
3120	17500	14 55	2.5			4,630	14.5	4,370	13.5	4,090	13.0	3,780	12 0	3,450	11.5	3,010	10
3170	17750	15.00	2.6					4,510	14.5	4,230	13.5	3,960	13.0	3,620	12 0	3,250	11
3200	18000	15.40	2 7					4,650	15	4,370	14.5	4,090	14.0	3,800	13.0	3,460	12
3244	18250	15 80	2.8					4,770	16	4,520	15.5	4,220	14 5	3,950	13 5	3,630	13
3290	18500	16 25	2.9					4,910	17	4,650	16	4,390	15.5	4,120	14 5	3,820	14
3330	18750	16.70	3 0							4,780	17	4,550	16.5	4,280	15.5	3,990	14
3380	19000	17.15	3.2							4,930	18	4,670	17.5	4,420	16.5	4,150	15
3425	19250	17 61	3.3							5,070	19	4,820	18.5	4,580	17.5	4,300	1
3470	19500	18.05	3.4							5,190	20	4,970	19	4,720	18.5	4,460	17
3515	19750	18.52	3.6									5,100	20	4,850	19 5	4,610	1
3560	20000	19.02	3.7									5,230	21	5,010	20.5	4,750	1

Single Inlet No. 5 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con. Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.4 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
3120	17500	14.55	2.5	2,290	8.4												
3150	17750	15.00	2.6	2,710	9.8												
3200	18000	15.40	2.7	2,970	11.0	2,290	9.0										
3244	18250	15.80	2.8	3,220	12.0	2,690	10.5										
3290	18500	16.25	2.9	3,480	13.0	2,950	11.5	2,120	8.9								
3336	18750	16.70	3.0	3,660	14.0	3,270	13	2,620	11.0								
3380	19000	17.15	3.1	3,830	14.5	3,480	14	3,000	12.5	2,120	9.6						
3425	19250	17.61	3.3	4,030	16.0	3,700	15	3,270	13.5	2,690	12.0						
3470	19500	18.05	3.4	4,180	16.5	3,880	16	3,500	14.5	3,000	13.0	2,170	10.5				
3515	19750	18.52	3.5	4,360	18	4,070	17	3,730	16	3,280	14.5	2,690	12.5				
3560	20000	19.02	3.7	4,510	19	4,250	18	3,930	17	3,550	15.5	3,070	14	2,240	11		

Single Inlet

No. 7 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
621	5000	1.19	.15	2,700	.71												
652	5250	1.31	.17	3,100	.88												
683	5500	1.44	.20	3,480	1.05												
713	5750	1.57	.22	3,820	1.30												
745	6000	1.71	.25	4,150	1.50												
775	6250	1.86	.29	4,470	1.75												
807	6500	2.00	.32	4,770	2.05	2,530	1.25										
838	6750	2.16	.36	5,080	2.35	3,200	1.60										
870	7000	2.33	.40	5,370	2.65	3,690	1.90										
900	7250	2.50	.45	5,650	3.05	4,120	2.25										
930	7500	2.67	.50	5,930	3.35	4,510	2.60										
960	7750	2.85	.55	6,200	3.75	4,870	2.95	2,200	1.50								
992	8000	3.04	.60	6,470	4.25	5,220	3.4	3,250	2.40								
1022	8250	3.23	.66	6,740	4.6	5,560	3.8	3,910	2.95								
1055	8500	3.43	.72	7,020	5.1			4,380	3.35								
1085	8750	3.64	.79	7,270	5.6			4,840	3.60								
1115	9000	3.85	.86	7,550	6.1			5,230	4.40	2,920	2.9						
1145	9250	4.07	.93	7,800	6.6			5,600	4.95	3,800	3.7						
1280	9500	4.28	1.0	8,070	7.3			5,980	5.5	4,420	4.4						
1210	9750	4.51	1.1	8,320	7.9			6,300	6.1	4,950	5.1						
1240	10000	4.75	1.2	8,580	8.7			6,670	6.7	5,390	5.7	2,840	3.55				
1275	10250	4.98	1.3	8,850	9.3			6,980	7.3	5,820	6.4	3,920	4.75				
1305	10500	5.23	1.4	9,100	10.0					6,210	7.1	4,670	5.8				
1335	10750	5.48	1.5	9,360	11.0					6,570	7.8	5,230	6.6				
1370	11000	5.74	1.6	9,590	11.5					6,930	8.6	5,730	7.4	3,210	4.8		
1400	11250	6.00	1.7	9,870	12.5					7,280	9.3	6,140	8.2	4,380	6.4		
1430	11500	6.28	1.8	10,100	13.5					7,630	10	6,550	9.0	5,120	7.5		
1460	11750	6.56	1.9	10,400	14.5					7,980	11	6,930	9.9	5,670	8.5		
1490	12000	6.84	2.0	10,600	16.0							7,330	11.0	6,140	9.5	4,230	7.2
1520	12500	7.42	2.3	11,100	18.0							8,030	12.5	7,040	11.5	5,670	9.8
1612	13000	8.00	2.6	11,600	20.5							8,720	15	7,780	13.5	6,670	12.0
1675	13500	8.65	2.9	12,100	23.0									8,520	16	7,570	14.5
1740	14000	9.32	3.2	12,600	25.5									9,210	18	8,470	17

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.59 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1582	12750	7.73	2.5	4,250	8.4												
1612	13000	8.00	2.6	5,060	9.8												
1642	13250	8.33	2.7	5,800	11.5												
1675	13500	8.63	2.9	6,380	12.5	4,230	9.4										
1705	13750	9.00	3.0	6,980	14.0	5,360	11.5										
1740	14000	9.32	3.2	7,370	15.5	6,080	13.0										
1765	14250	9.65	3.4	7,820	16.5	6,650	15.0	4,570	11.0								
1800	14500	9.98	3.6	8,230	18.0	7,200	16.5	5,450	13.5								
1830	14750	10.35	3.8	8,630	19.5	7,680	18.0	6,400	15.5								
1860	15000	10.70	4.0	9,020	21.0	8,140	19.5	6,980	17.0	5,040	13.5						
1890	15250	11.05	4.1	9,360	22.5	8,500	21.0	7,510	19.0	6,030	16.5						
1930	15500	11.40	4.4	9,730	24	8,930	22.5	7,980	20.5	6,730	18.0	4,400	13.5				
1955	15750	11.80	4.6	10,100	25	9,200	24	8,440	22.0	7,350	20.0	5,610	16.5				
1985	16000	12.18	4.8	10,400	27	9,680	25	8,830	23.5	7,850	22.0	6,500	19				
2003	16250	12.55	5.0	10,800	29	10,100	27	9,270	26	8,370	23.5	7,230	21	5,200	15.5		
2045	16500	12.95	5.3	11,100	30	10,400	29	9,650	27	8,800	25	7,800	23	6,350	20.0		
2083	16750	13.32	5.5			10,800	31	10,100	29	9,260	27	8,350	25	7,050	22.5	4,780	17.0
2110	17000	13.75	5.8			11,100	33	10,400	31	9,660	29	8,800	27	7,750	25	6,050	20.5
2147	17250	14.14	6.0			11,500	34	10,800	33	10,100	31	9,180	29	8,280	27	6,950	23.5
2170	17500	14.55	6.3			11,800	36	11,200	35	10,400	33	9,650	31	8,790	29	7,670	26
2211	17750	15.00	6.6					11,500	37	10,800	35	10,100	33	9,250	31	8,300	29
2240	18000	15.40	6.8					11,800	39	11,100	37	10,400	35	9,690	33	8,800	31
2260	18250	15.80	7.1					12,200	41	11,500	39	10,800	37	10,100	35	9,260	33
2300	18500	16.25	7.4					12,500	43	11,900	41	11,200	39	10,500	38	9,740	35
2330	18750	16.70	7.7							12,200	43	11,600	42	10,900	40	10,200	38
2360	19000	17.15	8.0							12,600	46	11,900	44	11,300	42	10,600	40
2390	19250	17.61	8.4							12,900	48	12,300	47	11,700	45	11,000	42
2420	19500	18.05	8.7							13,300	50	12,700	48	12,000	47	11,400	45
2450	19750	18.52	9.0									13,000	52	12,400	49	11,800	47
2480	20000	19.02	9.4									13,300	54	12,800	52	12,100	50

Single Inlet

No. 7 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con.

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances
Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15″ Water 8.66 ozs. per sq. inch		Static Pressure 16″ Water 9.25 ozs. per sq. inch		Static Pressure 17″ Water 9.82 ozs. per sq. inch		Static Pressure 18″ Water 10.4 ozs. per sq. inch		Static Pressure 19″ Water 11.0 ozs. per sq. inch		Static Pressure 20″ Water 11.6 ozs. per sq. inch		Static Pressure 21″ Water 20.2 ozs. per sq. inch	
2170	17500	14.55	6.3	5,840	21.5												
2211	17750	15.00	6.6	6,910	25												
2240	18000	15 40	6.8	7,570	28	5,840	23										
2260	18250	15.80	7.1	8,200	30	6,850	27										
2300	18500	16.25	7.4	8,880	33	7,530	29	5,100	23								
2330	18750	16.70	7.7	9,350	35	8,340	33	6,670	28								
2360	19000	17.15	8 0	9,770	38	8,860	35	7,660	32	5,420	24.5						
2390	19250	17 61	8 4	10.300	41	9,420	38	8,350	35	6,850	30						
2420	19500	18 05	8 7	10,700	43	9,900	40	8,950	38	7,650	34	5,530	26				
2450	19750	18 52	9 0	11,100	45	10,400	43	9,520	41	8,300	37	6,860	32				
2480	20000	19.02	9 4	11,500	48	10,800	46	10.000	42	9,060	40	7,840	36	5,700	29		

Single Inlet

No. 9 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
477	5000	1 19	23	4,230	1 10												
500	5250	1 31	.27	4,880	1 40												
525	5500	1 44	.31	5,470	1 70												
549	5750	1 57	.35	6,020	2 00												
573	6000	1 71	.40	6,540	2 35												
596	6250	1 86	.45	7,030	2.75												
620	6500	2 00	.51	7,500	3.20	3,970	1 95										
644	6750	2 16	.57	8,000	3 70	5,040	2 50										
668	7000	2 33	.63	8,430	4 20	5,780	3 00										
691	7250	2 50	.70	8,890	4 75	6,450	3 55										
715	7500	2 67	.78	9,280	5 3	7,070	4 1										
740	7750	2 85	.86	9,750	5 9	7,640	4 7	3 450	2 40								
764	8000	3 04	94	10,200	6 6	8,180	5 3	5,120	3 75								
786	8250	3 23	1 0	10,600	7 3	8,750	6	6,140	4 65								
811	8500	3 43	1 1	11,000	8 0			6,890	5 3								
835	8750	3 64	1 2	11,500	8 7			7,600	5.7								
858	9000	3.85	1 3	11,900	9.6			8,220	6.9	4,580	4 5						
882	9250	4 07	1.5	12,300	10 5			8,820	7 8	5,970	5.8						
905	9500	4 28	1 6	12,700	11 5			9,400	8.6	6,940	6 9						
930	9750	4.51	1.7	13,100	12 5			9,900	9 5	7,770	7.9						
955	10000	4.75	1 8	13,500	13 5			10,500	10 5	8,460	8.9	4,460	5 6				
975	10250	4 98	2.0	13,900	14 5			11,000	11 5	9,120	10 0	6,160	7.5				
1000	10500	5 23	2 1	14,300	16 0					9,760	11 0	7,350	9.0				
1020	10750	5.48	2.3	14,700	17 0					10,300	12.5	8,200	10.0				
1050	11000	5 74	2.5	15,100	18 5					10,900	13.5	9,000	11 5	5,050	7 6		
1070	11250	6.00	2 6	15,500	20 0					11,500	14.5	9,640	12.5	6,880	10 0		
1100	11500	6 28	2.8	15,900	21.5					12,000	16.0	10,300	14.0	8,050	12 0		
1120	11750	6 56	3.0	16,300	23					12,500	17.5	10,900	15.5	8,910	13 5		
1145	12000	6.84	3.2	16,700	25							11,500	16.5	9,620	15	6,640	11.5
1195	12500	7.42	3.6	17,500	28							12,000	19.5	11,100	18	8,920	15.5
1240	13000	8 00	4 0	18,300	32							13,700	23.5	12,200	21	10,500	19
1285	13500	8.65	4.5	19,000	36									13,400	25	11,900	23
1330	14000	9.32	5.1	19,800	40									14,500	29	13,100	26

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.59 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1215	12750	7.73	3 8	6,080	13 0												
1240	13000	8.00	4.1	7,950	15 5												
1260	13250	8 33	4 3	9,120	18 0												
1285	13500	8.63	4 6	10,000	20 0	6,640	14 5										
1310	13750	9.00	4.8	11,000	22.5	8,400	18 5										
1330	14000	9 32	5.1	11,600	24	9,520	21 0										
1335	14250	9.65	5.3	12,300	26	10,500	23.5	7,170	17.5								
1380	14500	9 98	5 6	12,900	29	11,300	26	8,570	21 0								
1405	14750	10 35	6 0	13,600	31	12,100	28	10,100	24 5								
1430	15000	10.70	6.2	14,200	33	12,800	30	11,000	27	7,930	21 5						
1450	15250	11 05	6.5	14,700	35	13,400	33	11,800	30	9,500	26						
1475	15500	11.40	6.9	15,300	38	14,000	35	12,500	32	10,600	28	6,900	21				
1500	15750	11 80	7.2	15,800	40	14,600	38	13,300	35	11,600	31	8,800	26				
1530	16000	12.18	7.5	16,400	43	15,200	40	13,900	37	12,400	34	10,200	30				
1552	16250	12 55	7 8	17,000	45	15,800	43	14,500	40	13,200	37	11,400	33	8,170	24		
1575	16500	12 95	8 3	17,500	48	16,400	46	15,200	43	13,900	40	12,300	37	9,960	31		
1595	16750	13 32	8 7			17,000	48	15,800	46	14,600	43	13,100	40	11,100	35	7,500	26
1620	17000	13 75	9 1			17,500	51	16,400	49	15,200	46	13,900	43	12,200	39	9,520	32
1645	17250	14 14	9 5			18,000	54	16,900	52	15,800	48	14,400	46	13,000	42	10,900	37
1670	17500	14 55	9 9			18,600	58	17,500	54	16,400	52	15,200	49	13,800	46	12,100	41
1695	17750	15.00	10					18,100	58	17,000	56	15,900	52	14,500	49	13,000	45
1720	18000	15.40	11					18,600	60	17,500	58	16,400	56	15,200	52	13,900	49
1745	18250	15.80	11					19,100	64	18,100	62	16,900	58	15,800	56	14,500	52
1770	18500	16 25	12					19,700	68	18,600	64	17,600	62	16,500	60	15,300	56
1790	18750	16.70	12							19,200	68	18,200	66	17,200	62	16,000	58
1815	19000	17.15	13							19,800	72	18,700	70	17,700	66	16,700	62
1840	19250	17 61	13							20,300	76	19,300	74	18,400	70	17,200	66
1860	19500	18 05	14							20,800	80	19,900	76	18,900	74	17,900	70
1885	19750	18 52	14									20,400	80	19,500	78	18,500	74
1910	20000	19 02	15									21,000	84	20,100	82	19,000	78

Single Inlet

No. 9 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con.

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1670	17500	14.55	9 9	9,180	34												
1695	17750	15.00	10	10,900	39												
1720	18000	15.40	11	11,900	44	9,180	36										
1745	18250	15.80	11	12,900	47	10,800	42										
1770	18500	16.25	12	14,000	52	11,900	46	8,480	36								
1790	18750	16.70	12	14,700	56	13,100	52	10,500	43								
1815	19000	17.15	13	15,400	60	13,900	56	12,100	50	8,520	38						
1840	19250	17.61	13	16,200	64	14,800	60	13,100	54	10,800	47						
1860	19500	18 05	14	16,800	68	15,600	64	14,100	60	12,000	52	8,700	41				
1885	19750	18.52	14	17,500	72	16,300	68	15,000	64	13,200	58	10,800	50				
1910	20000	19.02	15	18,100	76	17,100	72	15,800	68	14,300	62	12,300	56	8,950	45		

Single Inlet

No. 11 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

R.P.M.	Tip Speed F.P.M.	S.N.D. In Inches	S.N.D. H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure 1" Water 578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
397	5000	1.19	.33	6,090	1.60												
417	5250	1.31	38	7,000	2.00												
437	5500	1.44	.44	7,850	2.40												
457	5750	1.57	.50	8,630	2.90												
477	6000	1.71	.57	9,380	3.40												
497	6250	1.86	.65	10,100	3.95												
517	6500	2.00	.73	10,800	4.6	5,720	2.75										
537	6750	2.16	.81	11,500	5.3	7,220	3.6										
557	7000	2.33	.91	12,100	6.0	8,340	4.3										
577	7250	2.50	1.0	12,800	6.8	9,300	5.1										
596	7500	2.67	1.1	13,400	7.6	10,200	5.9										
615	7750	2.85	1.2	14,000	8.5	11,000	6.7	4,970	3.4								
635	8000	3.04	1.4	14,700	9.6	11,800	7.6	7,350	5.4								
655	8250	3.23	1.5	15,200	10.5	12,600	8.6	8,830	6.7								
675	8500	3.43	1.6	15,900	11.5			9,890	7.6								
695	8750	3.64	1.8	16,500	12.5			10,900	8.1								
715	9000	3.85	1.9	17,100	14.0			11,800	9.9	6,600	6.5						
735	9250	4.07	2.1	17,600	15.0			12,700	11.0	8,560	8.4						
755	9500	4.28	2.3	18,300	16.5			13,500	12.5	9,970	9.9						
775	9750	4.51	2.5	18,800	18.0			14,300	13.5	11,200	11.5						
795	10000	4.75	2.7	19,400	19.5			15,100	15.0	12,200	13.0	6,410	8.0				
815	10250	4.98	2.9	20,000	21.0			15,800	16.5	13,200	14.5	8,850	10.5				
835	10500	5.23	3.1	20,600	22.5					14,000	16.0	10,600	13.0				
855	10750	5.48	3.3	21,200	24.5					14,900	17.5	11,800	15.0				
875	11000	5.74	3.5	21,700	26					15,700	19.5	12,900	16.5	7,260	11.0		
895	11250	6.00	3.8	22,400	29					16,500	21	13,900	18.5	9,900	14.5		
915	11500	6.28	4.0	22,900	31					17,200	23	14,800	20.5	11,600	17.0		
935	11750	6.56	4.3	23,400	33					18,100	25	15,700	22.5	12,800	19.5		
955	12000	6.84	4.6	24,000	36							16,500	24.5	13,900	21.5	9,540	16.5
995	12500	7.42	5.2	25,200	40							18,200	29	15,900	26	12,800	22
1035	13000	8.00	5.8	26,300	46							19,700	33	17,600	31	15,100	27
1070	13500	8.65	6.5	27,400	52									19,300	36	17,200	33
1110	14000	9.32	7.3	28,400	58									20,800	41	18,900	38

R.P.M.	Tip Speed F.P.M.	S.N.D. In Inches	S.N.D. H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.59 ozs. per sq. inch		Static Pressure 14" Water 8.08 ozs. per sq. inch	
1015	12750	7.73	5.5	9,620	19												
1035	13000	8.00	5.8	11,400	22												
1050	13250	8.33	6.2	13,100	26												
1070	13500	8.63	6.5	14,400	29	9,550	21										
1090	13750	9.00	6.9	15,800	32	12,100	26										
1110	14000	9.32	7.3	16,600	35	13,700	30										
1130	14250	9.65	7.7	17,700	38	15,000	33	10,300	25								
1150	14500	9.98	8.1	18,600	41	16,300	37	12,300	30								
1170	14750	10.35	8.6	19,500	44	17,400	40	14,500	35								
1190	15000	10.70	8.9	20,400	47	18,400	44	15,800	39	11,400	31						
1210	15250	11.05	9.3	21,200	50	19,200	47	17,000	43	13,700	37						
1230	15500	11.40	9.9	22,000	54	20,200	50	18,000	46	15,200	41	9,920	30				
1250	15750	11.80	10	22,800	58	21,000	54	19,100	50	16,600	45	12,700	37				
1270	16000	12.18	11	23,600	60	21,900	58	20,000	54	17,800	49	14,700	43				
1290	16250	12.85	11	24,400	64	22,700	62	21,000	58	18,900	54	16,300	48	11,800	35		
1310	16500	12.95	12	25,100	68	23,600	66	21,800	62	19,900	58	17,600	52	14,400	45		
1330	16750	13.32	12			24,400	70	22,700	66	20,900	62	18,800	58	15,900	50	10,800	38
1350	17000	13.75	13			25,100	74	23,600	70	21,800	66	19,900	62	17,500	56	13,700	47
1370	17250	14.14	14			25,900	78	24,400	74	22,700	70	20,800	66	18,700	60	15,700	54
1390	17500	14.55	14			26,700	82	25,200	78	23,600	74	21,800	70	19,900	66	17,300	60
1410	17750	15.00	15					26,000	82	24,400	80	22,800	76	20,900	70	18,700	66
1430	18000	15.40	15					26,800	88	25,200	82	23,600	80	21,900	74	19,900	70
1450	18250	15.80	16					27,500	92	26,000	88	24,400	84	22,800	80	20,900	74
1470	18500	16.25	17					28,300	98	26,800	92	25,300	88	23,700	84	22,000	80
1490	18750	16.70	17							27,600	98	26,200	94	24,000	90	23,000	84
1510	19000	17.15	18							28,400	105	26,900	100	25,400	94	23,900	90
1530	19250	17.61	19							29,200	110	27,800	105	26,400	100	24,700	96
1550	19500	18.05	19							30,000	115	28,600	110	27,200	105	25,700	100
1570	19750	18.52	20									29,400	115	28,000	110	26,600	105
1590	20000	19.02	21									30,200	120	28,800	115	27,400	110

Single Inlet No. 11 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con. Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.

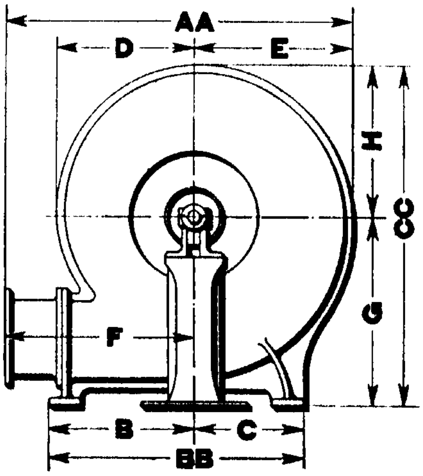
R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 15" Water 8.66 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11.0 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1390	17500	14.55	1.4	13,200	48												
1410	17750	15.00	1.5	15,600	56												
1430	18000	15.40	1.5	17,100	62	13,200	52										
1450	18250	15.80	1.6	18,500	68	15,500	60										
1470	18500	16.25	1.7	20,000	74	17,000	16	12,200	52								
1490	18750	16.70	1.7	21,100	80	18,900	74	15,100	62								
1510	19000	17.15	1.8	22,000	84	20,000	80	17,300	72	12,300	56						
1530	19250	17.61	1.9	23,200	92	21,300	86	18,800	78	15,500	68						
1550	19500	18.05	2.0	24,100	96	22,400	92	20,200	84	17,300	76	12,500	60				
1570	19750	18.52	2.0	25,100	105	23,400	98	21,500	92	18,900	82	15,500	72				
1590	20000	19.02	2.1	26,000	110	24,500	105	22,700	98	20,500	90	17,700	82	12,900	64		

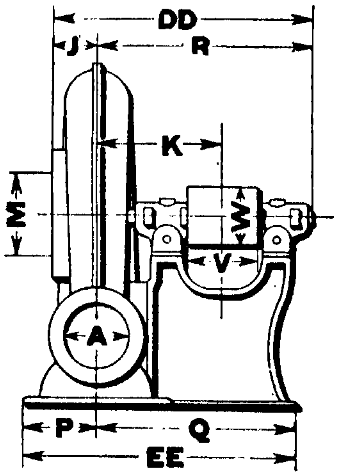
Single Inlet

Extra Heavy Gas Exhauster or Booster—Design 2, Form P

Single Width

Full Housing—Cast Iron **Bottom Horizontal Discharge** **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
4	8	14⅜	9⅞	13¼	15	18⅝	18⅝	14¼	4¼	13 13/16	8	8	22¼	23	5½	5	33⅝	24½	32⅞	27¼	30¼	19½	1⅜	⅝
6	12	18¾	13¼	18¼	20¾	25⅝	25¾	19⅝	5¾	18 7/16	12	9⅞	29⅝	30⅝	6¼	7	46⅛	32½	45⅝	36⅝	39½	26	1 11/16	⅝
8	16	25¾	19¼	24¼	27¼	33¼	33	26	7¾	22	16	13⅛	35⅝	37½	12½	9	61	45	59	45	48¼	36	2 3/16	¾
10	20	34¾	25¼	32⅜	37⅜	43¼	45¼	35	9¼	24¾	20	18	40⅝	41½	14	12	80⅞	60½	80⅛	50¼	58⅝	48	2 11/16	1

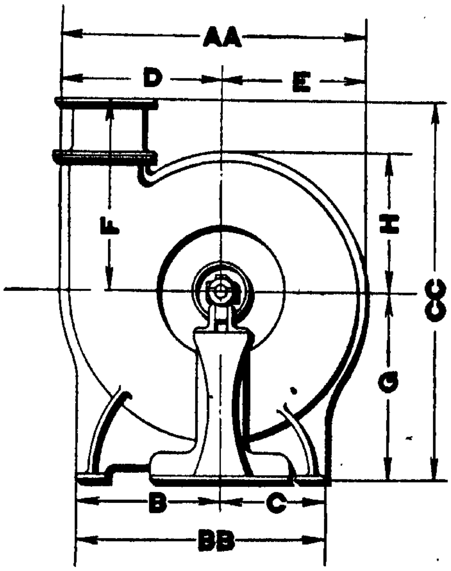
Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See page 732.

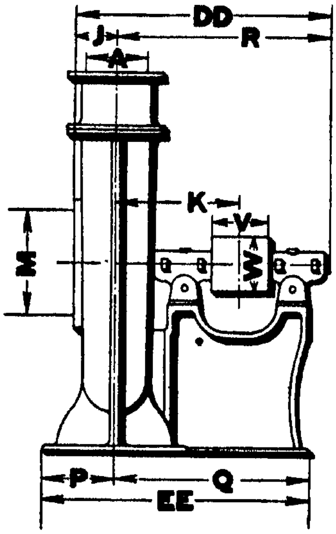
Single Inlet

Extra Heavy Gas Exhauster or Booster—Design 2, Form P

Single Width

Full Housing—Cast Iron **Up Blast Discharge** **Overhung Wheel**





Fan Size	A	B	C	D	E	F	G	H	J	K	M	P	Q	R	V	W	AA	BB	CC	DD	EE	Extreme Wheel Diameter	Shaft Diameter	Anchor Bolts
4	8	12	10	15¾	14¼	18⅝	17	13½	4½	13 13/16	8	8	22⅛	23	5½	5	30	22	35⅝	27½	30⅛	19½	1⅜	⅝
6	12	17⅝	12⅜	21⅞	19⅝	25⅜	24½	18½	5¾	18 7/16	12	9⅞	29⅜	30⅝	6½	7	41½	29¾	49⅞	36⅜	39½	26	1 11/16	⅝
8	16	20	18¾	29	26	33½	31	24½	7¾	22	16	13⅛	35⅜	37¼	12½	9	55	38¾	64½	45	48½	36	2 3/16	¾
10	20	27¼	27¼	39¾	35	43½	43	32⅝	9¼	24¾	20	18	40⅜	41¼	14	12	74¾	54½	86½	50½	58⅜	48	2 11/16	1

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See page 732.

Single Inlet

No. 4 Ex. Heavy Gas Exhauster or Booster—Design 2, Form P

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
980	5000	1.12	0.065	600	0.175												
1030	5250	1.23	0.075	717	0.205												
1080	5500	1.35	0.085	810	0.230												
1125	5750	1.48	0.098	918	0.280												
1175	6000	1.61	0.110	1,010	0.355												
1225	6250	1.75	0.125	1,090	0.445												
1270	6500	1.89	0.140	1,170	0.51	515	0.27										
1320	6750	2.08	0.160	1,260	0.58	719	0.34										
1370	7000	2.19	0.175	1,330	0.68	825	0.45										
1420	7250	2.35	0.195	1,410	0.81	939	0.53										
1470	7500	2.51	0.215	1,480	0.91	1,050	0.67										
1520	7750	2.68	0.240	1,550	1.00	1,150	0.79										
1565	8000	2.85	0.265	1,630	1.10	1,240	0.9	650	0.52								
1620	8250	3.03	0.290	1,700	1.25	1,340	1	815	0.67								
1660	8500	3.22	0.315	1,760	1.40			960	0.81								
1710	8750	3.42	0.345	1,830	1.50			1,090	0.96								
1760	9000	3.61	0.375	1,900	1.65			1,200	1.10								
1810	9250	3.82	0.405	1,980	1.80			1,310	1.25	786	0.83						
1860	9500	4.03	0.440	2,040	1.95			1,410	1.45	951	1.00						
1910	9750	4.28	0.475	2,110	2.15			1,510	1.6	1,010	1.25						
1960	10000	4.46	0.51	2,180	2.30			1,600	1.8	1,220	1.40						
2010	10250	4.69	0.55	2,240	2.45					1,330	1.60	792	1.05				
2060	10500	4.93	0.59	2,310	2.65					1,450	1.80	979	1.25				
2100	10750	5.15	0.64	2,370	2.85					1,550	2.05	1,130	1.50				
2160	11000	5.40	0.68	2,430	3.05					1,640	2.30	1,270	1.75				
2200	11250	5.64	0.73	2,500	3.25					1,740	2.50	1,390	2.00	885	1.4		
2250	11500	5.90	0.78	2,570	3.50					1,830	2.75	1,510	2.25	1,070	1.7		
2300	11750	6.16	0.83	2,630	3.75					1,920	3	1,610	2.50	1,230	2.0		
2350	12000	6.43	0.89	2,690	4.05							1,710	2.75	1,350	2.3		
2450	12500	6.98	1.00	2,820	4.5							1,910	3.40	1,610	2.9	1,210	2.30
2540	13000	7.54	1.15	2,950	5.2							2,100	4	1,810	3.5	1,480	2.95
2640	13500	8.13	1.25	3,070	5.8									2,020	4.2	1,710	3.65
2740	14000	8.75	1.40	3,200	6.5									2,210	4.9	1,930	4.35
2840	14500	9.36	1.55	3,330	7.4											2,140	5.2
2940	15000	10.0	1.75	3,460	7.8											2,340	6.0
3040	15500	10.7	1.9	3,580	9.4											2,540	6.9

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 oz. per sq. inch		Static Pressure 11" Water 6.36 oz. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
2540	13000	7.54	1.10	1,030	2.20												
2640	13500	8.13	1.25	1,370	2.95												
2740	14000	8.75	1.40	1,640	3.7	1,180	2.85										
2840	14500	9.36	1.55	1,860	4.5	1,540	3.8										
2940	15000	10.0	1.75	2,080	5.3	1,810	4.7	1,480	4.00								
3040	15500	10.7	1.90	2,290	6.3	2,040	5.7	1,760	4.95	1,420	4.2						
3130	16000	11.4	2.10	2,490	7.2	2,250	6.6	2,000	5.9	1,720	5.1	1,330	4.25				
3240	16500	12.2	2.30	2,680	8.2	2,460	7.7	2,220	6.9	1,980	6.1	1,060	5.4				
3320	17000	12.9	2.50			2,650	8.7	2,430	8.0	2,200	7.2	1,930	6.5	1,640	5.7		
3420	17500	13.7	2.75			2,840	9.8	2,630	9.1	2,410	8.4	2,170	7.6	1,930	6.8	1,600	6.0
3520	18000	14.5	3.00					2,830	10.5	2,610	9.6	2,380	8.9	2,170	8.1	1,900	7.3
3620	18500	15.3	3.25					3,020	11.5	2,820	11.0	2,600	10.0	2,390	9.4	2,150	8.5
3720	19000	16.2	3.50							3,010	12.5	2,800	11.5	2,610	11.0	2,380	9.9
3820	19500	17.0	3.80							3,200	13.5	3,000	13.0	2,820	12.0	2,600	11.5
3920	20000	17.9	4.1									3,200	14.5	3,020	13.5	2,810	13

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch		Static Pressure 00" Water 0.00 ozs. per sq. inch	
3520	18000	14.5	3.00	1,560	6.3												
3620	18500	15.3	3.25	1,910	7.8	1,550	6.6										
3720	19000	16.2	3.5	2,180	9.2	1,890	8.2	1,570	7.1								
3820	19500	17.0	3.8	2,410	10.5	2,170	9.7	1,910	8.7	1,590	7.6						
3920	20000	17.9	4.1	2,630	12	2,410	11	2,180	10.5	1,930	9.3						

Single Inlet

No. 6 Ex. Heavy Gas Exhauster or Booster—Design 2, Form P

Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
735	5000	1.12	0.130	1,230	0.360												
770	5250	1.23	0.150	1,470	0 415												
810	5500	1.35	0.175	1,680	0.47												
845	5750	1 48	0 200	1,880	0 57												
880	6000	1.61	0.230	2,060	0.73												
920	6250	1.75	0.255	2,240	0.91												
955	6500	1.89	0.290	2,410	1.05	1,060	0.56										
990	6750	2.08	0 325	2,590	1.20	1,470	0.70										
1030	7000	2.19	0.360	2,730	1.40	1,690	0.92										
1065	7250	2 35	0.400	2,880	1.65	1,920	1.10										
1100	7500	2.51	0.445	3,040	1.85	2,150	1.40										
1140	7750	2.68	0 49	3,180	2.05	2,360	1.60										
1175	8000	2.85	0.54	3,340	2.30	2,550	1.85	1,330	1.05								
1210	8250	3 03	0.59	3,480	2.60	2,750	2 1	1,670	1.35								
1250	8500	3.22	0 65	3,620	2.85			1,970	1.65								
1285	8750	3 42	0.71	3,750	3 10			2,230	1.95								
1320	9000	3.61	0.77	3,910	3.35			2,460	2.30								
1360	9250	3.82	0 83	4,050	3.65			2,700	2 60	1,610	1.70						
1390	9500	4 03	0 90	4,180	4.00			2,900	3.00	1,950	2.10						
1430	9750	4 28	0 97	4,330	4.35			3,100	3.30	2,230	2 50						
1470	10000	4.46	1.05	4,460	4.65			3,270	3 65	2,500	2.85						
1510	10250	4.69	1.15	4,590	5 0					2,730	3.30	1,620	2.15				
1540	10500	4 93	1.20	4,730	5.4					2,960	3 75	2,010	2.60				
1580	10750	5 15	1.30	4,870	5 8					3,170	4.15	2,310	3.10				
1620	11000	5 40	1 40	5,000	6 3					3,360	4.7	2,600	3.60				
1650	11250	5 64	1.50	5,130	6 7					3,560	5.2	2,850	4.15	1,820	2 90		
1690	11500	5 90	1.60	5,270	7 2					3,750	5.7	3,090	4.6	2,200	3 55		
1730	11750	6 16	1.70	5,380	7.7					3,930	6.1	3,310	5.2	2,510	4 1		
1760	12000	6 43	1.80	5,530	8 3							3,510	5.7	2,780	4 7		
1840	12500	6.98	2.05	5,790	9.3							3,920	6.9	3,290	6 0	2,490	4.7
1910	13000	7.54	2 30	6,050	10.5							4,310	8.2	3,720	7.2	3,040	6.0
1980	13500	8 13	2.60	6,310	12 0									4,130	8.6	3,510	7.5
2060	14000	8 75	2.90	6,570	13 5									4,530	10	3,960	9.0
2130	14500	9 36	3.20	6,830	15.0											4,390	10.5
2200	15000	10 0	3.55	7,090	16.0											4,800	12.5
2280	15500	10.7	3.95	7,350	19.5											5,200	14

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1910	13000	7.54	2.30	2,120	4.5												
1980	13500	8.13	2.60	2,810	6.1												
2060	14000	8.75	2 90	3,300	7.0	2,420	5 9										
2130	14500	9.36	3.20	3,820	9.2	3,160	7.8										
2200	15000	10.0	3.55	4,270	11	3,720	9 7	3,040	8.2								
2280	15500	10 7	3.95	4,690	13	4,190	11.5	3,020	10.0	2,910	8.6						
2360	16000	11.4	4.30	5,110	15	4,620	13.5	4,100	12.0	3,520	10.5	2,720	8.7				
2420	16500	12.2	4.75	5,500	17	5,040	15.5	4,550	14.0	4,040	12.5	3,410	11 0				
2500	17000	12 9	5.2			5,440	18	4,980	16 5	4,500	15.0	3,960	13.5	3,370	11.5		
2570	17500	13.7	5 6			5,820	20	5,380	18.5	4,940	17.0	4,450	15 5	3,950	14.0	3,280	12.0
2640	18000	14 5	6 1					5,790	21.5	5,350	19.5	4,890	18.0	4,450	16.5	3,890	15 0
2720	18500	15 3	6.7					6,190	24	5,770	22 5	5,330	21 0	4,900	19.5	4,410	17.5
2780	19000	16 2	7.2							6,180	25	5,740	23 5	5,350	22	4,870	20
2860	19500	17 0	7 8							6,560	28	6,160	27	5,780	25	5,340	23
2940	20000	17.9	8.4									6,560	30	6,190	28	5,750	26
3020	20500	18.8	9.0											6,580	31	6,190	30
3080	21000	19.7	9.7											6,980	35	6,580	33
3160	21500	20.6	10 5													7,000	37
3240	22000	21.6	11.5													7,380	40

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 15" Water 8.69 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
2640	18000	14.5	6.1	3,200	13												
2720	18500	15.3	6.7	3,910	16	3,180	13.5										
2780	19000	16 2	7 2	4,470	19	3,880	17	3,210	14.5								
2860	19500	17.0	7.8	4,940	22	4,460	20	3,900	18.0	3,250	15.5						
2940	20000	17.9	8 4	5,380	25	4,930	23	4,480	21.0	3,950	19.0						
3020	20500	18.8	9.1	5,840	28	5,390	26	5,000	24.5	4,520	22.5	3,940	20.0				
3080	21000	19.7	9 7	6,220	32	5,850	30	5,460	28	5,030	26	4,530	23.5	4,050	21.5		
3160	21500	20 6	10 5	6,670	35	6,280	33	5,920	32	5,510	29	5,070	27	4,630	25	4,080	23
3240	22000	21 6	11.5	7,070	39	6,720	37	6,350	35	5,980	33	5,590	31	5,160	29	4,680	27

Single Inlet No. 8 Ex. Heavy Gas Exhauster or Booster—Design 2, Form P Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
530	5000	1.12	0.240	2,240	0 65												
500	5250	1 23	0.275	2,680	0 76												
585	5500	1.35	0.320	3,050	0 85												
610	5750	1 48	0.365	3,420	1.05												
635	6000	1 61	0.415	3,750	1.35												
665	6250	1.75	0.465	4,080	1.65												
690	6500	1.89	0.53	4,380	1.90	1,920	1.00										
715	6750	2 08	0 59	4,720	2.20	2,680	1.30										
745	7000	2 19	0.66	4,970	2.55	3,070	1.70										
770	7250	2.35	0.73	5,250	3.00	3,500	2.00										
795	7500	2.51	0 81	5,530	3 40	3,900	2.50										
820	7750	2.68	0 89	5,790	3 70	4,280	2.95										
850	8000	2 85	0 98	6,070	4 15	4,650	3 35	2,420	1.90								
875	8250	3.03	1.10	6,330	4.75	5,000	3.8	3,040	2.50								
900	8500	3.22	1 20	6,580	5.2			3,580	3 00								
930	8750	3 42	1 30	6,830	5.7			4,060	3.60								
955	9000	3 61	1.40	7,100	6.1			4,470	4.15								
980	9250	3 82	1.50	7,370	6.6			4,900	4.75	2,930	3.1						
1010	9500	4.03	1.65	7,610	7 3			5,270	5.4	3,550	3.8						
1035	9750	4.28	1.75	7,880	8 0			5,630	6.0	4,070	4.6						
1060	10000	4.46	1.90	8,120	8 5			5,960	6.6	4,530	5.2						
1090	10250	4 69	2 05	8,360	9.2					4,960	6 0	2,900	3 90				
1120	10500	4.93	2.20	8,610	9.8					5,390	6.8	3,650	4 75				
1140	10750	5.15	2 40	8,860	10.5					5,770	7.6	4,210	5 6				
1170	11000	5.40	2.55	9,090	11.5					6,110	8.5	4,730	6.6				
1190	11250	5.64	2.75	9,330	12.0					6,480	9.4	5,180	7.6	3,300	5 2		
1220	11500	5 90	2.90	9,600	13 0					6,820	10.5	5,620	8.3	4,000	6.4		
1250	11750	6 16	3.10	9,810	14.0					7,160	11	6,020	9.4	4,570	7.5		
1270	12000	6 43	3.30	10,000	15.0							6,380	10.5	5,050	8.5		
1330	12500	6.98	3.75	10,500	17.0							7,130	12.5	5,980	11 0	4,520	8.5
1380	13000	7.54	4 2	11,000	19 0							7,840	15	6,760	13 0	5,530	11.0
1430	13500	8.13	4 7	11,500	21.5									7,520	15.5	6,400	13 5
1490	14000	8.75	5.3	11,900	24.5									8,250	18.5	7,200	16 5
1540	14500	9 36	5 8	12,400	27.5											8,000	19.5
1500	15000	10 0	6 5	12,900	29											8,740	22.5
1640	15500	10.7	7.2	13,400	35											9,460	25.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 oz. per sq. inch		Static Pressure 11" Water 6.36 oz. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1380	13000	7.54	4.15	3,840	8.2												
1430	13500	8.13	4.7	5,110	11 0												
1490	14000	8.75	5.3	6,100	14.0	4,400	10.5										
1540	14500	9.36	5.8	6,950	16.5	5,740	14.0										
1590	15000	10.0	6.5	7,750	20.0	6,750	17.5	5,530	15.0								
1640	15500	10.7	7.2	8,520	23.5	7,610	21	6,580	18.5	5,280	15.5						
1700	16000	11.4	7.8	9,290	27	8,410	25	7,460	22	6,400	19 0	4,950	16.0				
1750	16500	12.2	8.6	10,000	31	9,170	29	8,280	26	7,370	22.5	6,210	20.0				
1800	17000	12 9	9.4			9,910	33	9,090	30	8,190	27	7,210	24.5	6,120	21.5		
1860	17500	13.7	10.5			10,600	37	9,810	34	9,000	31	8,000	28	7,190	26	5,970	22
1910	18000	14 5	11.0					10,600	39	9,750	36	8,890	33	8,100	30	7,060	27
1960	18500	15.3	12 0					11,300	44	10,500	41	9,700	38	8,940	35	8,020	32
2020	19000	16 2	13.0							11,200	46	10,500	43	9,740	40	8,850	37
2070	19500	17.0	14.0							12,000	52	11,200	48	10,500	46	9,700	42
2120	20000	17.9	15.5									11,900	54	11,300	52	10,500	48
2180	20500	18.8	16.5											12,000	58	11,300	54
2240	21000	19 7	17 5											12,700	64	12,000	60
2280	21500	20.6	19.0													12,700	66
2340	22000	21.6	20.5													13,400	74

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1910	18000	14.5	11.0	5,830	23.5												
1960	18500	15.3	12 0	7,120	29	5,770	24.5										
2020	19000	16 2	13.0	8,140	34	7,050	30 5	5,840	26								
2010	19500	17 0	14 0	8,980	40	8,090	36	7,120	33	5,900	28						
2120	20000	17.9	15.5	9,780	45	8,960	42	8,140	38	7,190	35						
2180	20500	18.8	16.5	10,650	52	9,810	47	9,080	44	8,240	41	7,180	36				
2240	21000	19.7	17.5	11,400	58	10,700	54	9,940	50	9,130	47	8,250	43	7,370	40		
2280	21500	20.6	19.0	12,100	64	11,500	60	10,800	58	10,000	54	9,230	50	8,410	46	7,430	42
2340	22000	21.6	20.5	12,900	70	12,200	68	11,600	64	10,900	60	10,200	58	9,390	54	8,510	49

Single Inlet No. 10 Ex. Heavy Gas Exhauster or Booster—Design 2, Form P Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressure 6" Water 3.47 ozs. per sq. inch		Static Pressure 7" Water 4.05 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
400	5000	1.12	0.440	4,130	1.20												
420	5250	1.23	0.510	4,930	1.40												
440	5500	1.35	0.585	5,630	1.55												
460	5750	1.48	0.670	6,310	1.90												
480	6000	1.61	0.765	6,900	2.45												
500	6250	1.75	0.86	7,520	3.05												
520	6500	1.89	0.97	8,080	3.50	3,540	1.85										
540	6750	2.08	1.10	8,700	4.00	4,940	2.35										
555	7000	2.19	1.20	9,150	4.70	5,670	3.10										
575	7250	2.35	1.35	9,670	5.60	6,450	3.65										
595	7500	2.51	1.50	10,200	6.20	7,200	4.6										
615	7750	2.68	1.65	10,600	6.9	7,900	5.4										
635	8000	2.85	1.80	11,200	7.7	8,550	6.2	4,460	3.55								
655	8250	3.03	2.00	11,700	8.7	9,200	7.0	5,600	4.60								
675	8500	3.22	2.15	12,100	9.6			6,600	5.60								
695	8750	3.42	2.40	12,600	10.5			7,490	6.60								
715	9000	3.61	2.55	13,100	11.5			8,250	7.7								
735	9250	3.82	2.80	13,600	12.0			9,040	8.7	5,410	5.7						
755	9500	4.03	3.00	14,000	13.5			9,700	10	6,540	7.0						
775	9750	4.28	3.25	14,500	14.5			10,400	11	7,500	8.5						
800	10000	4.46	3.50	15,000	15.5			11,000	12	8,360	9.6						
815	10250	4.69	3.75	15,400	17.0					9,150	11.0	5,450	7.2				
840	10500	4.93	4.1	15,900	18.0					9,950	12.5	6,730	8.7				
860	10750	5.15	4.4	16,300	19.5					10,600	14.0	7,760	10.5				
880	11000	5.40	4.7	16,700	21.0					11,300	15.5	8,720	12.0				
900	11250	5.64	5.0	17,200	22.5					11,900	17.5	9,570	14.0	6,000	9.7		
920	11500	5.90	5.4	17,700	24					12,600	19.0	10,400	15.5	7,380	12.0		
940	11750	6.16	5.7	18,100	26					13,200	20.5	11,100	17.5	8,430	14.0		
960	12000	6.43	6.1	18,500	28							11,800	19.0	9,320	15.5		
1000	12500	6.98	6.9	19,400	31							13,100	23.5	11,000	20	8,350	16.5
1040	13000	7.54	7.8	20,300	35							14,500	27.5	12,500	24	10,200	20
1080	13500	8.13	8.7	21,100	40									13,900	29	11,800	25
1110	14000	8.75	9.7	22,000	45									15,200	34	13,300	30
1150	14500	9.36	10.5	22,900	50											14,700	36
1190	15000	10.0	12	23,800	54											16,100	41
1230	15500	10.7	13	24,600	64											17,400	48

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 8" Water 4.63 ozs. per sq. inch		Static Pressure 9" Water 5.2 ozs. per sq. inch		Static Pressure 10" Water 5.78 ozs. per sq. inch		Static Pressure 11" Water 6.36 ozs. per sq. inch		Static Pressure 12" Water 6.93 ozs. per sq. inch		Static Pressure 13" Water 7.51 ozs. per sq. inch		Static Pressure 14" Water 8.09 ozs. per sq. inch	
1040	13000	7.54	7.7	7,090	15.0												
1080	13500	8.13	8.7	9,410	20.5												
1110	14000	8.75	9.7	11,200	26	8,120	19.5										
1150	14500	9.36	10.5	12,800	31	10,600	26										
1190	15000	10.0	12.0	14,300	37	12,500	32	10,200	27								
1230	15500	10.7	13.5	15,700	43	14,000	39	12,100	34	9,740	29						
1270	16000	11.4	14.5	17,100	50	15,500	46	13,800	41	11,800	35	9,110	29				
1310	16500	12.2	16.0	18,500	56	16,900	52	15,300	48	13,600	42	11,400	37				
1360	17000	12.9	17.5			18,300	60	16,800	56	15,100	50	13,300	45	11,300	39		
1390	17500	13.7	19.0			19,500	68	18,100	62	16,600	58	14,900	52	13,300	47	11,000	41
1430	18000	14.5	20.5					19,500	72	18,000	66	16,400	62	14,900	56	13,000	50
1470	18500	15.3	22.5					20,700	80	19,400	76	17,900	70	16,500	64	14,800	58
1510	19000	16.2	24							20,700	84	19,200	80	18,000	74	16,300	68
1550	19500	17.0	26							22,100	94	20,700	90	19,400	84	17,900	78
1600	20000	17.9	28									22,000	100	20,700	94	19,300	88
1630	20500	18.8	30											22,000	105	20,700	100
1680	21000	19.7	33											23,400	115	22,100	110
1720	21500	20.6	35													23,400	125
1760	22000	21.6	38													24,800	135

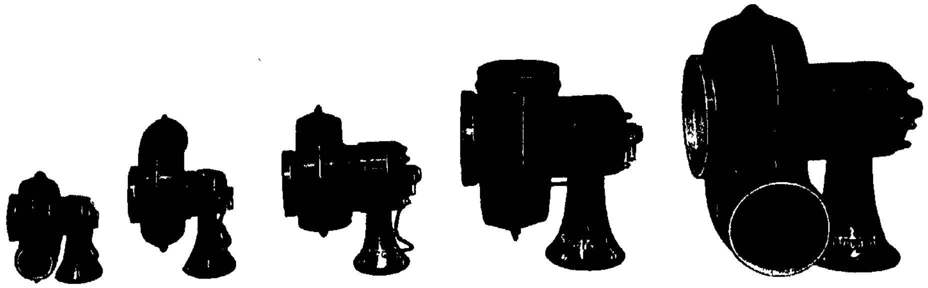
R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 15" Water 8.68 ozs. per sq. inch		Static Pressure 16" Water 9.25 ozs. per sq. inch		Static Pressure 17" Water 9.82 ozs. per sq. inch		Static Pressure 18" Water 10.4 ozs. per sq. inch		Static Pressure 19" Water 11 ozs. per sq. inch		Static Pressure 20" Water 11.6 ozs. per sq. inch		Static Pressure 21" Water 12.1 ozs. per sq. inch	
1430	18000	14.5	20.5	10,800	43												
1470	18500	15.3	22.5	13,100	54	10,600	45										
1510	19000	16.2	24	15,000	64	13,000	56	10,800	49								
1550	19500	17.0	26	16,600	74	14,900	66	13,100	60	10,900	52						
1600	20000	17.9	28	18,100	84	16,600	76	15,000	70	13,300	64						
1630	20500	18.8	30	19,600	94	18,100	88	16,700	82	15,200	76	13,200	68				
1680	21000	19.7	33	21,000	105	19,600	98	18,300	92	16,800	86	15,200	80	13,600	72		
1720	21500	20.6	35	22,400	120	21,000	110	19,900	105	18,500	98	17,000	92	15,500	84	13,700	76
1760	22000	21.6	38	23,700	130	22,600	125	21,300	120	20,100	110	18,800	105	17,300	98	15,700	90

READY-TO-RUN VENTILATING SETS

Portable

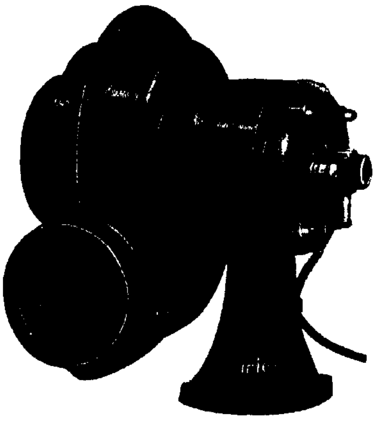
Dimensions, Capacities, Horse Powers

Ready-to-Run Ventilating Sets

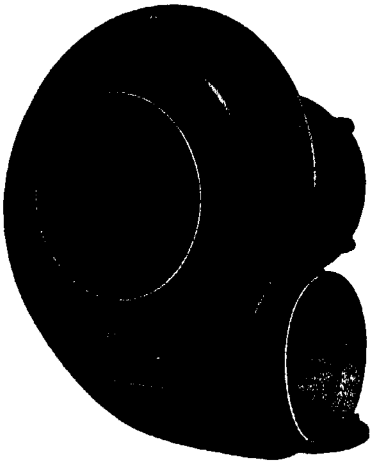


Five Standard Sizes Ready-to-Run Ventilating Sets
Showing Different Discharges.

Size A Ready-to-Run Ventilating Set Wheel.



Motor View, Ready-to Run
Ventilating Set.



Inlet View, Ready-to-Run
Ventilating Set.

READY-TO-RUN VENTILATING SET

SPECIFICATIONS

General. There shall be furnished a No......... Sturtevant Ready-to-Run Ventilating Set. It shall be made single inlet, single width, and be reversible so that any discharge can be secured. The wheel shall be not less than......inches diameter, ...inches wide. The outlet shall be......inches diameter, and the inlet...... inches diameter. The total height of the fan housing shall be......inches, the width in direction of the shaft ......inches, and the length transverse to shaft...... inches. The fan shall have a capacity of........cubic feet per minute against a resistance of......inches water gauge either at the inlet or at the outlet (or at both, taking the sum) and shall operate at approximately ....R. P. M., requiring approximately........ B. H. P.

Housing. The housing shall be of pressed steel and supported from the motor housing.

Wheel. The blades of the wheel shall be spooned with spherical depressions to efficiently handle the air. The wheel shall be overhung on the extended motor shaft.

Motor. The electric motor shall be of the Sturtevant UV Type, and shall meet all the requirements of the American Institute of Electrical Engineers. The motor shall be supported by a cast-iron base of sufficient stability, so that fan will stand upright without other support.

Ready-To-Run Ventilating Sets

EXPLANATION OF TABLES

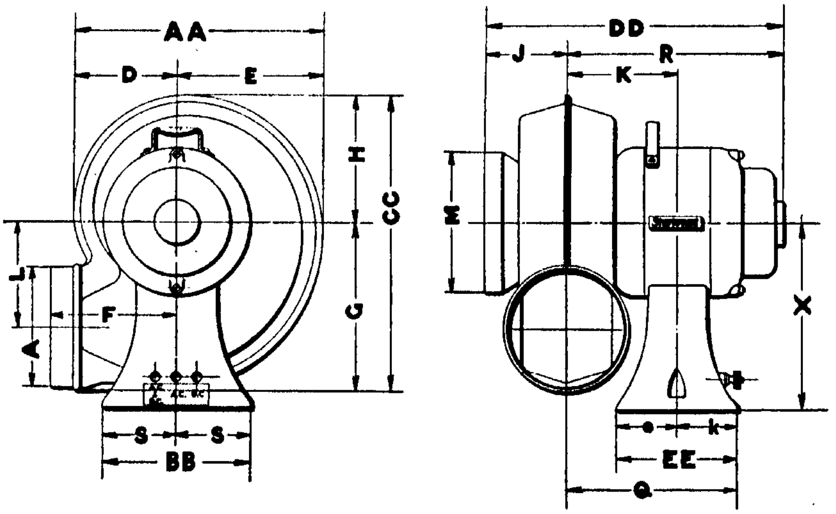
The general explanation of tables given at the front of this book applies without exception to the following tables.

Ready-to-Run Ventilating Set

APPROXIMATE WEIGHTS

Size	Weight
A	13
B	25
C	32
D	88
E	120

Ready-to-Run Ventilating Sets



SIZE A

Size of Motor	Rev. Per Minute	Dia. of Shaft	Extreme Dia. of Wheel	A	D	E	F	G	H	J	K	L	M	Q	R	S	X	AA	BB	CC	DD	EE	e	k
1-U	1150 1750 3400	$\frac{5}{16}$	$4\frac{1}{16}$	$3\frac{1}{16}$	$3\frac{3}{8}$	$4\frac{5}{8}$	$3\frac{3}{4}$	$5\frac{1}{4}$	4	$2\frac{13}{32}$	$3\frac{11}{16}$	$3\frac{3}{16}$	$4\frac{1}{8}$	$5\frac{11}{16}$	$6\frac{3}{32}$	$2\frac{9}{16}$	$5\frac{7}{8}$	8	$5\frac{1}{8}$	$9\frac{1}{4}$	$8\frac{1}{2}$	4	2	2

SIZE B

Size of Motor	Rev. Per Minute	Dia. of Shaft	Extreme Dia. of Wheel	A	D	E	F	G	H	J	K	L	M	Q	R	S	X	AA	BB	CC	DD	EE	e	k
1-U 3-U	1150 1750 3400	$\frac{1}{2}$	$4\frac{23}{32}$	$3\frac{13}{16}$	$4\frac{1}{8}$	$5\frac{3}{8}$	$1\frac{23}{32}$	$6\frac{3}{8}$	$4\frac{7}{8}$	$2\frac{21}{32}$	5	$4\frac{5}{32}$	$5\frac{1}{4}$	$7\frac{5}{16}$	$8\frac{21}{32}$	3	$7\frac{1}{8}$	$9\frac{3}{4}$	6	$11\frac{1}{4}$	$11\frac{3}{8}$	$4\frac{3}{8}$	$2\frac{5}{16}$	$2\frac{5}{16}$

SIZE C

Size of Motor	Rev. Per Minute	Dia. of Shaft	Extreme Dia. of Wheel	A	D	E	F	G	H	J	K	L	M	Q	R	S	X	AA	BB	CC	DD	EE	e	k
3-U	1150 1750	$\frac{1}{2}$	6	$5\frac{9}{16}$	$4\frac{3}{4}$	$6\frac{3}{4}$	$5\frac{1}{2}$	$7\frac{3}{4}$	$5\frac{3}{4}$	$3\frac{9}{16}$	$5\frac{1}{4}$	$4\frac{9}{16}$	$6\frac{1}{8}$	$7\frac{3}{4}$	$9\frac{1}{8}$	$3\frac{1}{2}$	$8\frac{1}{4}$	$11\frac{1}{2}$	7	$30\frac{1}{2}$	$12\frac{11}{16}$	5	$2\frac{1}{2}$	$2\frac{1}{2}$

SIZE D

Size of Motor	Rev. Per Minute	Dia. of Shaft	Extreme Dia. of Wheel	A	D	E	F	G	H	J	K	L	M	Q	R	S	X	AA	BB	CC	DD	EE	e	k
3-U $\frac{1}{2}$-B $\frac{3}{4}$-B	850 1150 1750	$\frac{3}{4}$	$8\frac{7}{16}$	$6\frac{7}{8}$	$6\frac{3}{8}$	$9\frac{1}{8}$	$7\frac{1}{4}$	$10\frac{3}{8}$	$7\frac{7}{8}$	5	$7\frac{23}{32}$	$6\frac{21}{32}$	$8\frac{11}{16}$	$11\frac{13}{32}$	$13\frac{29}{32}$	$4\frac{1}{2}$	$10\frac{7}{8}$	$15\frac{1}{4}$	9	$18\frac{1}{4}$	$18\frac{19}{32}$	$7\frac{1}{4}$	$3\frac{3}{8}$	$3\frac{3}{8}$

SIZE E

Size of Motor	Rev. Per Minute	Dia. of Shaft	Extreme Dia. of Wheel	A	D	E	F	G	H	J	K	L	M	Q	R	S	X	AA	BB	CC	DD	EE	e	k
$\frac{1}{2}$-B $\frac{3}{4}$-B 1 -B	700 850 1150	$\frac{3}{4}$	$10\frac{11}{16}$	$8\frac{3}{4}$	$8\frac{1}{16}$	$11\frac{5}{16}$	10	$13\frac{1}{8}$	10	6	$8\frac{3}{4}$	$7\frac{11}{16}$	$11\frac{1}{4}$	$13\frac{1}{4}$	15	$5\frac{1}{2}$	$13\frac{3}{8}$	20	11	$23\frac{1}{8}$	1	9	$4\frac{1}{2}$	$4\frac{1}{2}$

Ready-to-Run Portable Ventilating Sets

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

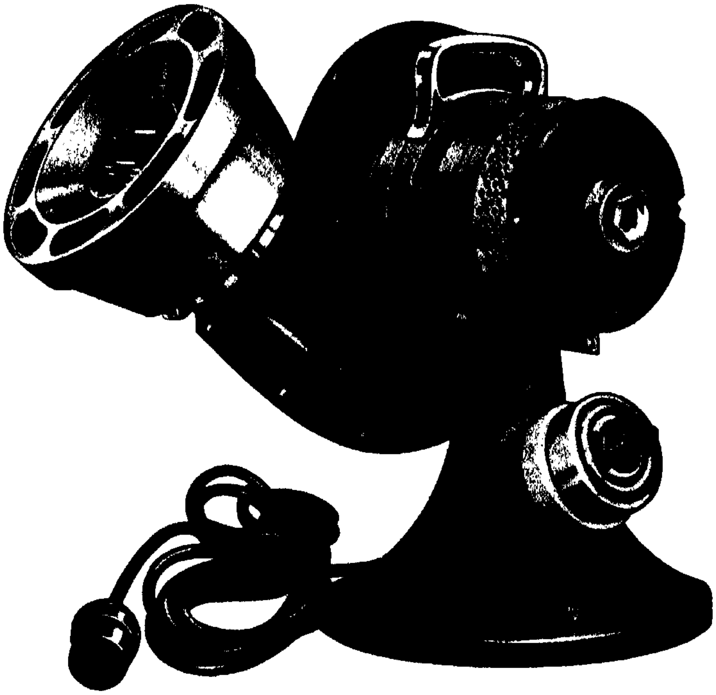
Size	R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H.P	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure Free Discharge		Static Pressure 1/16" Water .362 ozs. per sq. inch		Static Pressure 1/8" Water .722 ozs. per sq. inch		Static Pressure 2/10" Water .116 ozs. per sq. inch		Static Pressure 3/10" Water .174 ozs. per sq. inch	
A	850	884	0.1258	58	0 0016	39	0.0011						
	1,150	1,196	0 2305	78	0.0039	65	0.0034	50	0.0024				
	1,750	1,820	0.533	119	0.014	111	0 013	102	0.012	91	0.011	73	0.008
	3,400	3,537	2.015	231	0 1	227	0 090	223	0 097	218	0.096	211	0.094
B	850	1,050	0 179	109	0.0042	85	0 0034	26	0 0016				
	1,150	1,427	0 328	147	0.0107	130	0.0095	112	0.0080	77	0.0054		
	1,750	2,170	0 758	223	0.0366	213	0 0356	202	0.0343	188	0.032	168	0.0285
	3,400	4,215	2 87	430	0 29	429	0.28	424	0.269	417	0.263	409	0 261
C	850	1,290	0.258	211	0 0131	205	0.0122	182	0.0108	35	0 0032		
	1,150	1,750	0.476	286	0 0328	285	0.0319	277	0.0304	260	0.0286	192	0.0206
	1,750	2,660	1.10	435	0 115	434	0 114	433	0.112	430	0.110	420	0.107
	2,250	3,420	1.82	560	0 246					558	0.237	554	0.234
D	850	1,830	0.52	510	0.0639	597	0.062	496	0.0598	471	0.0566	393	0.0469
	1,150	2,420	0.95	678	0.1575	686	0.153	684	0 153	674	0.148	654	0.144
	1,750	4,760	2 2	1,046	0.555					1,043	0.547	1,040	0.534
E	700	2,965	0.60	876	0.127	872	0.124	859	0.120	827	0.115	745	0.103
	850	2,390	0.89	1,064	0.228	1,062	0.225	1,058	0.219	1,040	0.214	1,004	0.207
	1,150	3,230	1.62	1,440	0.562			1,437	0,544	1,431	0.543	1,420	0.533
	1,750	4,910	3.76	2.185	1.98					2,180	1.965	2,180	1 95

Size	R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure 4/10" Water .231 ozs. per sq. inch		Static Pressure 5/10" Water .289 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch	
A	850	884	0 1258										
	1,150	1,196	0.2305										
	1,750	1,820	0.533	28	0.005								
	3,400	3,537	2.015	204	0.092	197	0 089	158	0.068	117	0 051		
B	850	1,050	0.179										
	1,150	1,427	0.328										
	1,750	2,170	0.758	147	0.023	60	0.0105						
	3,400	4,215	2 87	390	0.254	390	0.248	341	0.219	315	0.2	145	0.106
C	850	1,290	0.258										
	1,150	1,750	0.476										
	1,750	2,660	1.10	406	0.103	384	0.0973						
	2,250	3,420	1.82	548	0.232	540	0.228	451	0 188	223	0.114		
D	850	1,830	0 52	47	0 0083								
	1,150	2,470	0.95	622	0.137	569	0.125						
	1,750	3,760	2 2	1,033	0.529	1,023	0.523	925	0 468	818	0 413		
E	700	1,965	0.60	495	0 0688								
	850	2,390	0.89	945	0.194	841	0.172						
	1,150	3,230	1.62	1,399	0.524	1,370	0.514	1,000	0.366	254	0.144		
	1,170	4,910	3.76	2,180	1.94	2,185	1.92	2,115	1.84	2,070	1.8	1,800	1.55

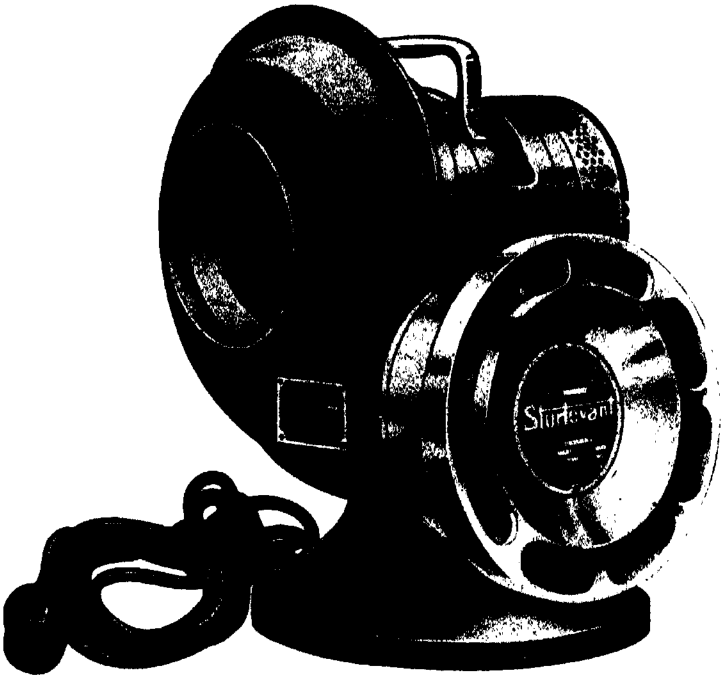
ELECTRIC HEAT BLOWERS

Dimensions, Capacities, Horse Powers

Electric Heat Blower



The Outlet Can be Turned to Discharge in Any Direction.
Switch Has Several Positions



Electric Heat Blower—Note Inlet and Heating Coils

STURTEVANT
ELECTRIC HEAT BLOWER

SPECIFICATIONS

General. There shall be furnished a No.......... Sturtevant Electric Heat Blower to consist of a Sturtevant size........Ready-to-Run Ventilating Set with heating element clamped over the outlet. The set shall be so designed that the outlet can be turned around to discharge air in any direction.

Heating Elements. The heating element shall consist of an aluminum shell containing heating coils of high-grade resistance wire wound on porcelain cylinders.

Motors. The motor shall be of the Sturtevant UV Type, size........, frame to be of laminated steel with distributed field winding, and provided with S. K. F. self-aligning ball bearings.

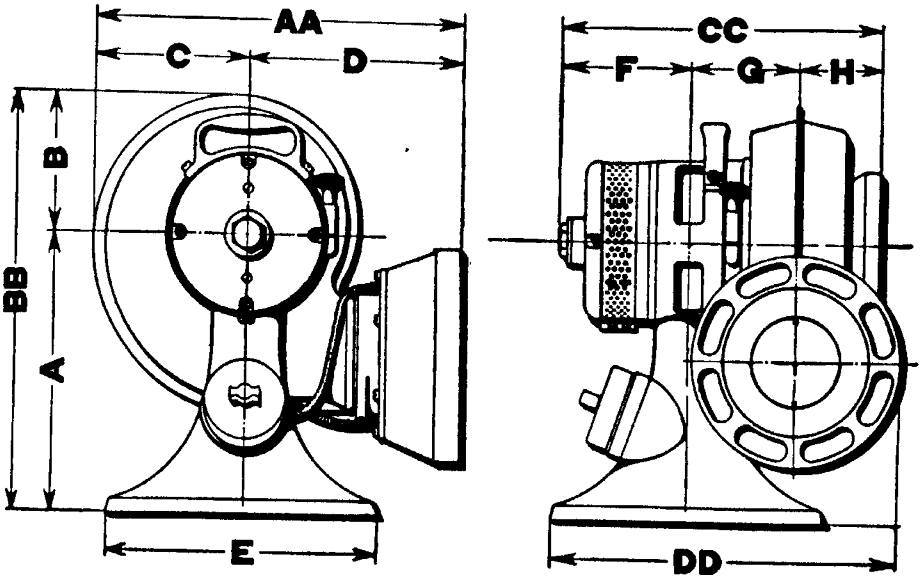
Base. The set shall be provided with a base so designed that there will be no danger of tipping. On the base a switch shall be provided to control the heating elements so that air of different temperatures can be secured.

Electric Heat Blower

APPROXIMATE WEIGHTS

Size	Weight
1	50
2	61
3	95
4	132
5	310

Electric Heat Blower



Size	A	B	C	D	E	F	G	H	AA	BB	CC	DD
1	8 3/16	4	4 5/8	6 7/8	8	4 3/8	3 3/4	2 3/8	11 1/2	12 3/16	10 1/2	11 3/8
2	9 13/16	4 7/8	5 5/8	7 7/8	10	4 5/8	3 7/8	3	13 1/2	14 11/16	11 1/2	12 3/4
3	12 5/16	5 3/4	6 3/4	9 1/2	12	5 1/2	5	3 1/2	16 1/4	18 1/16	14	16 3/4
4	15 3/8	7 5/8	9 1/8	12 3/16	17	5 5/8	6 9/16	5	21 5/16	23	17 3/16	22 1/16
5	18 1/2	10	11 9/16	13 5/8	22	6 1/8	7	6	25 3/16	28 1/2	19 1/8	27 5/8

Electric Heat Blower

CAPACITIES

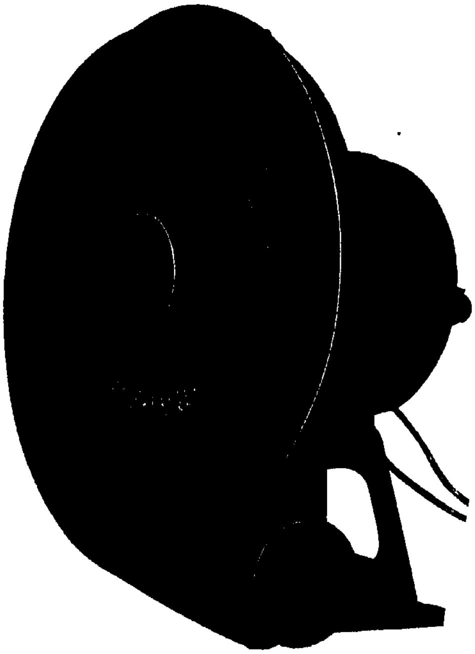
Size	Number of Air Temperatures Possible	Maximum Capacity in B. T. U. per Hour	Speed of Fan Revolutions per Minute	Maximum Temperature Rise Degrees Fah.	Watts Consumed (varies with the Temperature of Air)	Volume of Air Cubic Feet per Minute	Outside Diameter of Inlet in Inches	Extreme Diameter across Heater in Inches	Height in Inches
1	1	3400	2100	32	1000	100	$4\frac{1}{8}$	$6\frac{1}{4}$	12
2	2	6800	2000	32	1000 or 2000	200	$5\frac{1}{8}$	$7\frac{1}{2}$	15
3	2	13500	1750	30.4	2000 or 4000	420	$6\frac{1}{8}$	$11\frac{1}{2}$	19
4	3	24000	1150	34	2300 or 4600 or 7000	660	$8\frac{5}{8}$	14	23
5	3	34000	850	32.2	3300 or 6650 or 10000	995	$11\frac{1}{4}$	$18\frac{3}{4}$	$28\frac{1}{2}$

If permanent pipe connections are to be made to inlet or outlet, do not use above dimensions. Certified print will be sent upon request. All sets furnished with one extra set of brushes for motor and sizes 1, 2 and 3, with 15 feet of electric cord, without additional charge.

ELECTRIC FORGE BLOWERS

Dimensions, Capacities, Horse Powers

Electric Forge Blowers



Electric Forge Blower.

Electric Forge Blower in Use.

FORGE BLOWER

SPECIFICATIONS

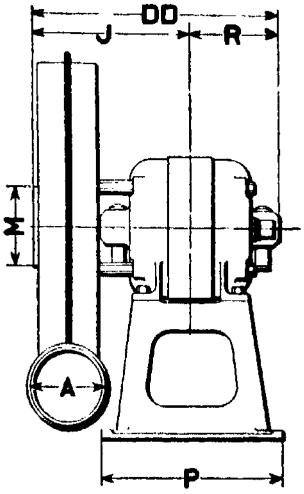
There shall be furnished a Sturtevant Forge Blower driven by an Electric Motor and built to operate on........current, ...volts, ...cycles, ...phase. The wheel shall be overhung on the extended motor shaft, and shall be encased in a pressed steel casing made in two halves, flanged and bolted together. The outlet shall be arranged for connection to delivery pipe. There shall be provided a base sufficiently large so that the set will stand upright without other support.

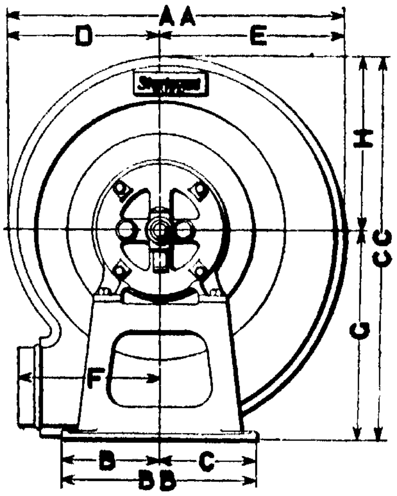
Forge Blower

EXPLANATION OF TABLES

The general explanation of tables given at the front of this book applies without exception to the following tables.

Forge Blower





(With A. C. Motor)

A	B	C	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	Extreme Wheel Diameter	Anchor Bolts
3	3⅞	3⅞	6	7¼	5½	7⅞	6¾	6¾	3	7¼	3⅝	13¼	7¾	14½	10	8	¼

(With D. C. Motor)

A	B	C	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	Extreme Wheel Diameter	Anchor Bolts
3	3⅞	3⅞	6	7¼	5½	7⅞	6⅝	6¾	3	7¼	3¾	13¼	7¾	14½	10	10	¼

8" Electric Multivane Forge Blower — A. C. Motor

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure 3¼" Water 1.88 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 3¾" Water 2.17 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch		Static Pressure 4½" Water 2.6 ozs. per sq. inch		Static Pressure 5" Water 2.89 ozs. per sq. inch		Static Pressur 5¼" Water 3.04 ozs. per sq. inch	
3500	7425	5 41	103	0 194	93 5	0 188	84.5	0.181	75 5	0 174	58	0.159	38.6	0 138	23 8	0 127

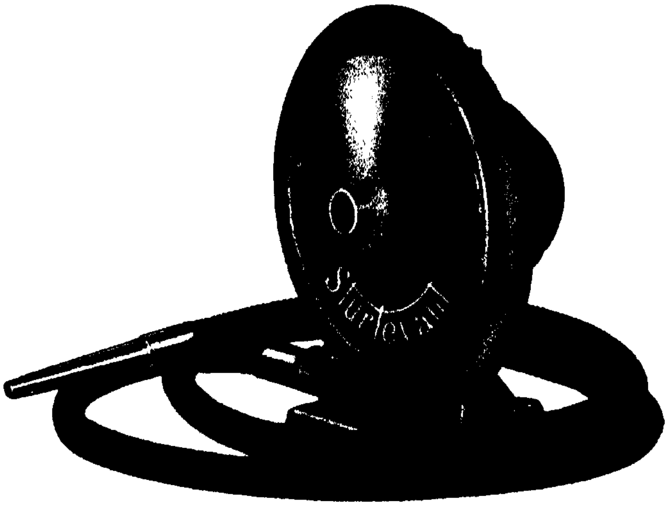
10" Electric Multivane Forge Blower — D. C. Motor

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P
			Static Pressure 1½" Water .878 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2¼" Water 1.3 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 2¾" Water 1.59 ozs. per sq. inch		Static Pressur 3" Water 1.73 ozs. per sq. inch	
2800	7330	4 65	167	0.194	158	0 187	147	0 18	136	0.171	125	0 165	112	0 156	100	0.14
R.P.M.	**Tip Speed F.P.M.**	**S.N.D. in inches**	**Static Pressure 3¼" Water 1.88 ozs. per sq. inch**		**Static Pressure 3½" Water 2.02 ozs. per sq. inch**		**Static Pressure 3¾" Water 2.17 ozs. per sq. inch**		**Static Pressure 4" Water 2.31 ozs. per sq. inch**		**Static Pressure 4½" Water 2.6 ozs. per sq. inch**					
2800	7330	4 65	87	0 14	73	0.131	59	0.123	44	0 114	11	0 108				

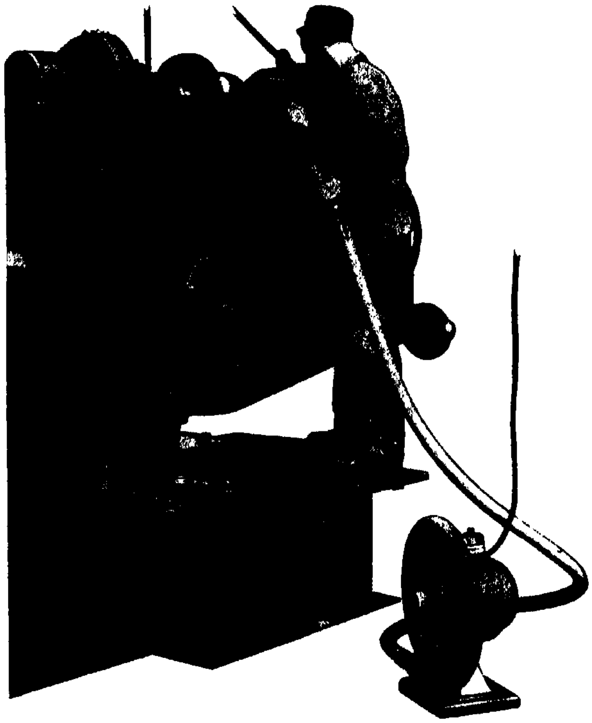
ELECTRIC DUST BLOWERS

Dimensions, Capacities, Horse Powers

Electric Dust Blower



Electric Dust Blower.



Electric Dust Blower in Use.

DUST BLOWER

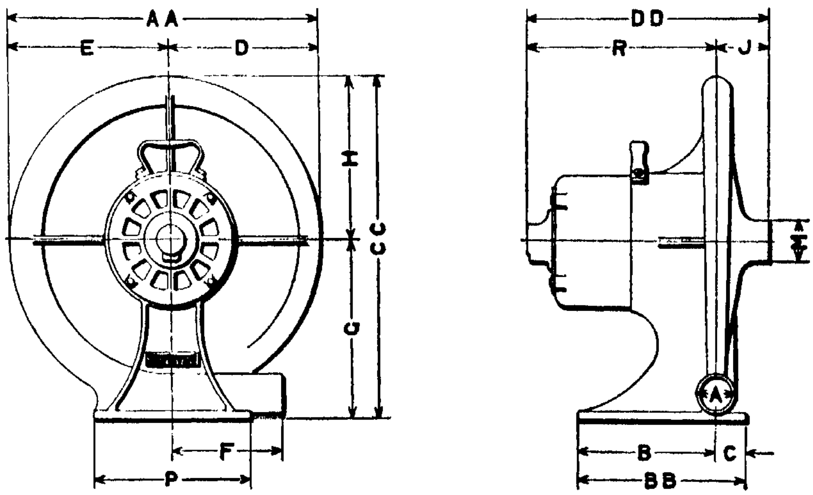
SPECIFICATIONS

General. There shall be furnished a Sturtevant Dust Blower to consist of an aluminum casing and fan wheel driven by an Electric Motor and built to operate on .... current, ... volts, ... cycles, ... phase.

The set shall have a base large enough so that the apparatus will be perfectly stable without other support. The motor shall be supported from the blower casing.

There shall be provided 12 feet of flexible rubber hose, 1½ inches inside diameter to be attached to the outlet of blower. The hose shall be fitted with an aluminum blowing nozzle 10 inches long. Twenty feet of electric light cord with plug attachments shall also be provided.

Sturtevant Dust Blower



(With Sturtevant 1-6 B Motor)

A	B	C	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	Extreme Wheel Diameter
$2\frac{1}{16}$	$5\frac{1}{4}$	$1\frac{5}{8}$	$8\frac{3}{16}$	$8\frac{3}{4}$	6	$9\frac{5}{16}$	$8\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{1}{16}$	$8\frac{1}{2}$	$8\frac{5}{8}$	$16\frac{13}{16}$	$7\frac{3}{8}$	$17\frac{13}{16}$	$11\frac{3}{8}$	11

(With Sturtevant 3 U.V. Motor)

A	B	C	D	E	F	G	H	J	M	P	R	AA	BB	CC	DD	Extreme Wheel Diameter
$2\frac{1}{16}$	5	$1\frac{5}{8}$	$8\frac{3}{16}$	$8\frac{3}{4}$	6	$9\frac{5}{16}$	$8\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{1}{16}$	$8\frac{1}{2}$	$8\frac{1}{2}$	$16\frac{13}{16}$	$6\frac{5}{8}$	$17\frac{13}{16}$	$11\frac{1}{4}$	14

Net Weight — 55.

CONE FANS

Dimensions, Capacities, Horse Powers

Cone Fan

Cone Fan

CONE FAN

SPECIFICATIONS

General. There shall be furnished a Sturtevant Cone Fan of wheel diameter. . . . . .inches.

The fan shall have a capacity. . . . . cubic feet per minute against a resistance of . . . . .inches water gauge when operating at approximately. . . . . . . R. P. M., and requiring approximately . . . . . . .B. H. P.

Wheel. The floats of the wheel shall be securely held between a back plate supported by a cast-iron cone keyed to the shaft, and an annular front plate. The floats shall be curved in the direction opposite to the rotation of the wheel.

Shaft. The shaft shall be made of a steel forging and after the keyways are cut shall be turned and ground.

Bearings. The bearings shall be of the brush oiling type, split lengthwise along the center of the shaft and supported by chairs so as to be self-aligning. Bearings shall be lined with the best quality babbitt, containing upwards of 85 per cent. tin, bored and scraped to exact size.

Pulley. The fan shall be equipped with a pulley. . . . . .inch diameter, and with face. . . . . .inches wide.

CONE FAN

EXPLANATION OF SPECIFICATION REQUIREMENTS

It will be noted that the Cone Fan has no housing, and is generally used in connection with a plenum chamber. The backwardly curved floats give very quiet operation, and the cone fan is therefore very desirable where this is a factor.

Cone Fan

EXPLANATION OF TABLES

The fans of this type have no casing and deliver directly into a plenum space usually of considerable size. The capacities are measured from a pipe discharging from the room into which the fan delivers. The maintained resistance is the static pressure in the room.

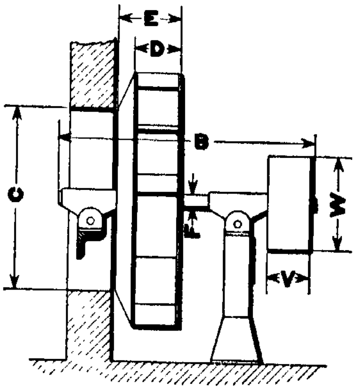
For further information refer to the general explanation of tables in the front of the book,

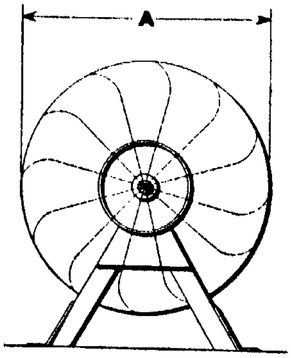
Cone Fan

APPROXIMATE WEIGHTS

Size	Weight Not Packed
30	50
36	100
42	168
48	250
54	340
60	425
66	525
72	670
84	800
96	975
108	1180
120	1275
144	1600

Cone Fan





Fan Size	A	B	C	D	E	F	V	W
30	30	30	24	6	7½	$1\frac{11}{16}$	5½	12
36	36	36	27¾	7¼	9	$1\frac{13}{16}$	6½	14
42	42	42	31	8½	10½	$1\frac{15}{16}$	7½	16
48	48	48	36	9½	12	$2\frac{3}{16}$	7½	18
54	54	54	38	10¾	13½	$2\frac{3}{16}$	8½	20
60	60	60	42	12	15	$2\frac{7}{16}$	8½	20
66	66	66	47	13¾	16½	$2\frac{11}{16}$	9½	22
72	72	72	52¼	14½	18	$2\frac{11}{16}$	10½	24
84	84	84	60	16¾	21	$3\frac{7}{16}$	12½	28
96	96	96	68	19¼	24	$3\frac{11}{16}$	12½	32
108	108	108	77	21¾	27	$3\frac{15}{16}$	12½	36
120	120	120	86	24¼	32¼	$3\frac{15}{16}$	12½	42
144	144	144	102	29	38¼	4½	14½	48

30" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
306	2400	0.293	860	0.105												
330	2600	0.341	1,460	0.140												
356	2800	0.399	2,020	0.195												
382	3000	0.457	2,550	0.27	1,250	0.210										
408	3200	0.520	3,000	0.36	1,820	0.265										
433	3400	0.587			2,390	0.340	1,240	0.300								
459	3600	0.658			2,930	0.445	1,820	0.365								
485	3800	0.734			3,440	0.57	2,420	0.46	1,390	0.415						
510	4000	0.814			3,930	0.72	2,960	0.58	1,970	0.50						
535	4200	0.898					3,470	0.73	2,530	0.61	1,650	0.54				
560	4400	0.985					4,000	0.89	3,110	0.75	2,220	0.67				
585	4600	1.075					4,480	1.1	3,660	0.91	2,760	0.79	1,940	0.75		
611	4800	1.17							4,190	1.10	3,360	0.96	2,530	0.88	1,720	0.83
636	5000	1.27							4,660	1.35	3,890	1.15	3,100	1.05	2,300	0.96
669	5250	1.40							5,310	1.7	4,580	1.45	3,820	1.30	3,060	1.20
700	5500	1.54									5,190	1.8	4,480	1.60	3,740	1.45
732	5750	1.68									5,810	2.2	5,130	1.95	4,430	1.75
765	6000	1.83											5,740	2.35	5,070	2.15
796	6250	1.99											6,370	2.85	5,740	2.60
826	6500	2.15													6,330	3.05
860	6750	2.32													6,980	3.65

36" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
255	2400	0.293	1,250	0.150												
276	2600	0.344	2,120	0.205												
297	2800	0.399	2,930	0.28												
318	3000	0.457	3,700	0.39	1,810	305										
340	3200	0.520	4,440	0.52	2,640	0.385										
361	3400	0.587			3,470	0.495	1,800	0.435								
382	3600	0.658			4,250	0.65	2,640	0.53								
403	3800	0.734			4,990	0.83	3,520	0.67	2,020	0.60						
425	4000	0.814			5,700	1.05	4,300	0.84	2,850	0.73						
445	4200	0.898					5,030	1.05	3,670	0.88	2,400	0.78				
467	4400	0.985					5,800	1.30	4,520	1.10	3,210	0.97				
488	4600	1.075					6,500	1.55	5,300	1.30	4,010	1.15	2,810	1.10		
510	4800	1.17							6,070	1.60	4,880	1.40	3,660	1.30	2,490	1.20
531	5000	1.27							6,750	1.95	5,650	1.70	4,500	1.50	3,340	1.40
557	5250	1.40							7,700	2.45	6,650	2.15	5,540	1.85	4,430	1.70
584	5500	1.54									7,530	2.6	6,500	2.30	5,430	2.10
610	5750	1.68									8,440	3.2	7,440	2.85	6,410	2.55
637	6000	1.83											8,330	3.45	7,350	3.10
663	6250	1.99											9,240	4.15	8,330	3.75
690	6500	2.15													9,180	4.45
716	6750	2.32													10,100	5.3

42" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
218	2,400	0.293	1,700	0.205												
236	2,600	0.344	2,900	0.280												
255	2,800	0.399	4,000	0.385												
273	3,000	0.457	5,050	0.54	2,480	0.415										
291	3,200	0.520	6,060	0.71	3,600	0.53										
309	3,400	0.587			4,730	0.68	2,460	0.59								
329	3,600	0.658			5,800	0.88	3,610	0.73								
346	3,800	0.734			6,810	1.15	4,800	0.91	2,760	0.83						
364	4,000	0.814			7,780	1.45	5,860	1.15	3,890	1.00						
382	4,200	0.898					6,860	1.45	5,000	1.20	3,270	1.05				
400	4,400	0.985					7,910	1.75	6,170	1.50	4,380	1.35				
418	4,600	1.075					8,870	2.15	7,240	1.80	5,470	1.55	3,840	1.50		
436	4,800	1.17							8,290	2.20	6,650	1.90	5,000	1.75	3,400	1.65
455	5,000	1.27							9,220	2.65	7,700	2.30	6,150	2.05	4,550	1.90
478	5,250	1.40							10,500	3.35	9,060	2.90	7,560	2.55	6,050	2.35
500	5,500	1.54									10,300	3.55	8,870	3.15	7,410	2.85
523	5,750	1.68									11,500	4.40	10,200	3.85	8,760	3.50
545	6,000	1.83											11,400	4.7	10,000	4.25
569	6,250	1.99											12,600	5.6	11,400	5.1
591	6,500	2.15													12,500	6.1
614	6,750	2.32													13,700	7.2

48" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
191	2,400	0.293	2,170	0.265												
207	2,600	0.314	3,700	0.36												
223	2,800	0.399	5,100	0.49												
239	3,000	0.157	6,450	0.68	3,160	0.53										
255	3,200	0.520	7,720	0.91	4,600	0.67										
271	3,400	0.587			6,050	0.86	3,140	0.75								
287	3,600	0.658			7,400	1.15	4,620	0.93								
302	3,800	0.734			8,700	1.45	6,120	1.15	3,520	1.05						
319	4,000	0.814			9,940	1.85	7,480	1.45	4,970	1.25						
331	4,200	0.898					8,750	1.85	6,400	1.55	4,170	1.35				
350	4,400	0.985					10,100	2.25	7,880	1.90	5,600	1.70				
366	4,600	1.075					11,300	2.75	9,250	2.30	6,990	2.00	4,910	1.90		
382	4,800	1.17							10,600	2.80	8,500	2.40	6,400	2.20	4,350	2.10
398	5,000	1.27							11,800	3.40	9,840	2.95	7,850	2.60	5,820	2.45
418	5,250	1.40							13,400	4.25	11,600	3.70	9,660	3.25	7,720	3.0
438	5,500	1.54									13,100	4.55	11,300	4.00	9,470	3.6
458	5,750	1.68									14,700	5.60	13,000	4.95	11,200	4.5
478	6,000	1.83											14,500	6.0	12,800	5.4
498	6,250	1.99											16,100	7.2	14,500	6.5
517	6,500	2.15													16,000	7.8
537	6,750	2.32													17,600	9.3

54" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
170	2400	0 293	2,770	0 34												
184	2600	0 344	4,710	0 46												
198	2800	0 399	6,500	0 63												
212	3000	0 457	8,200	0.87	4,020	0.67										
226	3200	0 520	9,850	1.15	5,875	0 85										
240	3400	0 587			7,700	1.10	4,000	0.96								
255	3600	0.658			9,430	1.45	5,870	1.20								
269	3800	0 734			11,100	1 85	7,790	1.50	4,480	1 35						
283	4000	0 814			12,600	2.35	9,520	1 85	6,320	1.60						
297	4200	0.898					11,200	2.35	8,140	1 95	5,320	1.75				
311	4400	0 985					12,900	2 9	10,000	2.4	7,120	2.15				
325	4600	1.075					14,400	3.5	11,800	2.9	8,900	2 55	6,240	2.40		
340	4800	1.17							13,500	3 6	10,800	3.10	8,140	2.85	5,530	2.7
354	5000	1 27							15,000	4 3	12,500	3.75	10,000	3 35	7,400	3.1
372	5250	1 40							17,100	5.4	14,700	4 75	12,300	4 15	9,840	3.8
389	5500	1 54									16,700	5.8	14,400	5.1	12,000	4 6
407	5750	1 68									18,700	7.2	16,500	6 3	14,200	5.7
425	6000	1.83											18,500	7 6	16,300	6.9
442	6250	1 99											20,500	9.2	18,500	8 3
460	6500	2 15													20,400	9.9
478	6750	2 32													22,400	12

60" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
153	2400	0 293	3,430	0 42												
166	2600	0 344	5,850	0 57												
178	2800	0.399	8,070	0 78												
191	3000	0.457	10,200	1.1	5,000	0 84										
204	3200	0.520	12,200	1.4	7,300	1 05										
216	3400	0.587			9,550	1 35	4,970	1.2								
229	3600	0.658			11,700	1 8	7,300	1.45								
242	3800	0 734			13,700	2 3	9,700	1.85	5,560	1.65						
255	4000	0 814			15,700	2.9	11,800	2.30	7,860	2.00						
268	4200	0.898					13,850	2.90	10,100	2.40	6,600	2.15				
280	4400	0.985					15,600	3.55	12,400	3.00	8,850	2.70				
293	4600	1.075					17,900	4.35	14,600	3.65	11,000	3.15	7,750	3 00		
306	4800	1.17							16,700	4.45	13,400	3 85	10,100	3.50	6,860	3.35
319	5000	1.27							18,600	5.3	15,500	4 65	12,400	4 15	9,190	3.85
334	5250	1.40							21,200	6 7	18,300	5 9	15,200	5 2	12,200	4.70
350	5500	1.54									20,700	7.2	17,900	6.4	14,900	5.70
366	5750	1.68									23,200	8.9	20,500	7.8	17,700	7.10
382	6000	1.83											22,900	9 5	20,200	8.6
398	6250	1.99											25,400	11.5	22,900	10.5
414	6500	2.15													25,300	12 0
430	6750	2.32													27,900	14.5

66" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
139	2400	0 293	4,180	0 51												
150	2600	0 344	7,100	0 69												
162	2800	0 399	9,800	0 95												
174	3000	0 457	12,400	1.35	6,080	1 00										
185	3200	0 520	14,900	1.75	8,850	1 30										
197	3400	0 587			11,600	1 65	6,040	1 45								
208	3600	0.658			14,200	2.15	8,850	1.80								
220	3800	0 734			16,700	2.8	11,800	2 25	6,760	2 00						
231	4000	0 814			19,100	3.5	14,400	2 80	9,550	2.45						
243	4200	0 898					16,900	3.55	12,300	2.95	8,030	2 60				
255	4400	0 985					19,400	4 35	15,100	3.65	10,800	3.25				
266	4600	1 075					21,800	5 3	17,800	4.4	13,500	3 85	9,420	3.65		
278	4800	1 17							20,400	5 4	16,300	4 70	12,300	4.3	8,350	4.05
289	5000	1.27							22,600	6 5	18,900	5 6	15,100	5.0	11,200	4.7
304	5250	1 40							25,800	8.2	22,300	7 2	18,600	6 3	14,800	5.7
318	5500	1 54									25,200	8 8	21,800	7.7	18,200	7.0
333	5750	1 68									28,300	11	24,900	9 5	21,500	8.6
347	6000	1 83											27,900	11.5	24,000	10 5
361	6250	1 99											30,900	14	27,900	12.5
375	6500	2 15													30,800	15
390	6750	2.32													33,900	18

72" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
127	2400	0 293	4,980	0 60												
138	2600	0 344	8,480	0 83												
148	2800	0 399	11,700	1 15												
159	3000	0.457	14,800	1.55	7,250	1 20										
170	3200	0.520	17,800	2.1	10,600	1 55										
180	3400	0.587			13,900	2 00	7,200	1.75								
191	3600	0 658			17,000	2 60	10,600	2 10								
202	3800	0 734			20,000	3 30	14,100	2 65	8,070	2.40						
212	4000	0 814			22,800	4.15	17,200	3.35	11,400	2.90						
223	4200	0 898					20,100	4 2	14,700	3 50	9,570	3 10				
233	4400	0 985					23,200	5.2	18,100	4 35	12,800	3.9				
244	4600	1.075					26,000	6.3	21,200	5 3	16,000	4 6	11,200	4 35		
254	4800	1.17							24,300	6 5	19,500	5 6	14,700	5 1	10,000	4.85
265	5000	1 27							27,000	7 8	22,600	6.7	18,000	6 0	13,300	5.6
278	5250	1.40							30,800	9.8	26,600	8 5	22,200	7 5	17,700	6 8
202	5500	1.54									30,100	10.5	26,000	9.2	21,700	8.3
305	5750	1.68									33,800	13	29,800	11.5	25,600	10.5
318	6000	1.83											33,300	14.0	29,400	12.5
331	6250	1 99											37,000	16 5	33,300	15
345	6500	2 15													36,700	18
358	6750	2.32													40,500	21

84" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R. P. M.	Tip Speed F.P.M.	S. N. D. in inches	Static Pressure ¼" Water .145 ozs per sq inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
109	2400	.293	6,710	.81												
118	2600	.344	11,400	1.1												
127	2800	.399	15,800	1.5												
136	3000	.457	19,900	2.1	9,760	1.65										
145	3200	.52	23,900	2.8	14,200	2.10										
155	3400	.587			18,700	2.65	9,700	2.35								
164	3600	.658			22,900	3.5	14,200	2.85								
173	3800	.734			26,800	4.45	18,900	3.6	10,900	3.25						
182	4000	.814			30,700	5.7	23,100	4.5	15,400	3.95						
191	4200	.898					27,100	5.7	19,700	4.75	12,900	4.2				
200	4400	.985					31,200	7.0	24,300	5.8	17,300	5.2				
209	4600	1.075					35,000	8.5	28,600	7.1	21,600	6.2	15,100	5.9		
218	4800	1.17							32,700	8.7	26,200	7.5	19,700	6.9	13,400	6.5
228	5000	1.27							36,400	10.5	30,400	9.1	24,300	8.1	18,000	7.5
239	5250	1.40							41,500	13	35,800	11.5	29,800	10.0	23,900	9.2
250	5500	1.54									40,500	14.0	35,000	12.5	29,200	11.0
262	5750	1.68									45,400	17.5	40,000	15.5	34,600	14.0
272	6000	1.83											44,800	18.5	39,600	16.5
284	6250	1.99											49,800	22	44,800	20
296	6500	2.15													49,500	24
307	6750	2.32													54,500	29

96" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R. P. M.	Tip Speed F. P. M.	S. N. D. in inches	Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
96	2400	.293	8,780	1.05												
103	2600	.344	15,000	1.45												
111	2800	.399	20,600	2.00												
119	3000	.457	26,000	2.75	12,800	2.15										
127	3200	.520	31,300	3.7	18,600	2.70										
135	3400	.587			24,400	3.50	12,700	3.05								
143	3600	.658			30,000	4.55	18,600	3.75								
151	3800	.734			35,200	5.8	24,800	4.7	14,200	4.25						
159	4000	.814			40,200	7.4	30,300	5.9	20,100	5.1						8.5
167	4200	.898					35,500	7.4	25,800	6.2	16,900	5.5				9.9
175	4400	.985					40,900	9.1	31,800	7.6	22,600	6.9				12.0
183	4600	1.075					45,800	11.	37,400	9.3	28,400	8.1	19,800	7.7		14.5
191	4800	1.17							42,800	11.5	34,400	9.9	25,800	9.0	17,600	18
198	5000	1.27							47,700	13.5	39,800	12.0	31,800	10.5	23,500	22
209	5250	1.40							54,300	17	46,900	15.0	39,000	13.0	31,200	26
218	5500	1.54									53,100	18.5	45,800	16.5	38,200	31
228	5750	1.68									59,500	22.5	52,400	20	45,200	37
239	6000	1.83											58,600	24	51,900	
248	6250	1.99											65,100	29	58,700	
259	6500	2.15													64,700	
268	6750	2.32													71,400	

108" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
85	2,400	0.293	11,200	1.35												
92	2,600	0.344	19,000	1.85												
99	2,800	0.399	26,200	2.55												
106	3,000	0.457	33,100	3.5	16,300	2.70										
113	3,200	0.520	39,300	4.7	23,700	3.45										
120	3,400	0.587			31,100	4.45	16,200	3.90								
128	3,600	0.658			38,100	5.8	23,700	4.75								
135	3,800	0.734			44,800	7.4	31,500	6.0	18,100	5.4						
142	4,000	0.814			51,100	9.4	38,500	7.5	25,600	6.6						
149	4,200	0.898					45,100	9.5	32,900	7.9	21,500	7.0				
156	4,400	0.985					52,000	11.5	40,500	9.7	28,800	8.7				
163	4,600	1.075					58,300	14	47,600	12.0	35,900	10.5	25,200	9.8		
170	4,800	1.17							54,500	14.5	43,700	12.5	32,900	11.5	22,400	11.0
177	5,000	1.27							60,600	17.5	50,600	15.0	40,400	13.5	29,900	12.5
186	5,250	1.40							69,000	22	59,500	19.0	49,600	17.0	39,700	15.5
195	5,500	1.54									67,500	23.5	58,300	20.5	48,700	18.5
204	5,750	1.68									75,600	29	66,700	25	57,500	23
213	6,000	1.83											74,600	31	66,000	28
222	6,250	1.99											82,900	37	74,700	34
230	6,500	2.15													82,400	40
239	6,750	2.32													90,800	48

120" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
76	2,400	0.293	13,900	1.70												
83	2,600	0.344	23,600	2.30												
89	2,800	0.399	32,600	3.15												
96	3,000	0.457	41,200	4.35	20,200	3.4										
102	3,200	0.520	49,400	5.8	29,400	4.3										
108	3,400	0.587			38,600	5.5	20,100	4.8								
115	3,600	0.658			47,300	7.2	29,400	5.9								
121	3,800	0.734			55,500	9.2	39,200	7.4	22,500	6.7						
127	4,000	0.814			63,500	11.5	47,800	9.3	31,800	8.1						
134	4,200	0.898					56,000	11.5	40,800	9.8	26,700	8.7				
140	4,400	0.985					64,600	14.5	50,300	12.0	35,700	11.0				
146	4,600	1.075					72,400	17.5	59,000	14.5	44,600	13.0	31,300	12		
153	4,800	1.17							67,600	18.0	54,300	15.5	40,800	14	27,800	13.5
159	5,000	1.27							75,300	21.5	62,900	18.5	50,200	17	37,200	15.5
167	5,250	1.40							85,800	27	74,000	21	61,700	21	49,400	19
175	5,500	1.54									83,900	29	72,400	26	60,500	23
183	5,750	1.68									94,000	36	82,900	32	71,500	29
191	6,000	1.83											92,800	38	81,900	35
199	6,250	1.90											103,000	46	92,700	42
207	6,500	2.15													102,000	50
215	6,750	2.32													113,000	60

144" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

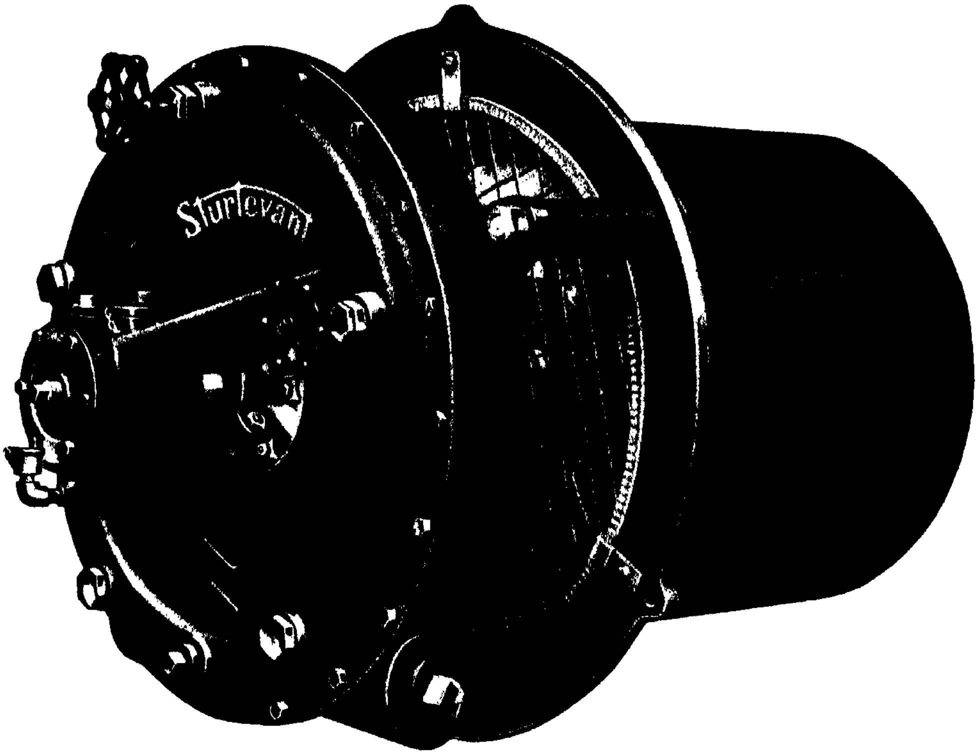
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .505 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
64	2,400	0.203	19,000	2 46												
69	2,600	0 314	33,900	3 30												
74	2,800	0 399	46,700	4 50												
80	3,000	0 457	59,000	6 25	29,000	4 85										
85	3,200	0 520	70,000	8 35	42,200	6.1										
90	3,400	0 587			55,400	7.9	28,800	6.9								
95	3,600	0 658			67,700	10 5	42,200	8.5								
101	3,800	0 731			79,600	13 5	56,100	10 5	32,200	9.7						
106	4,000	0 814			91,000	16.5	68,500	13 5	45,500	11 5						
111	4,200	0 898					80,300	17.0	58,500	14.0	38,200	12 5				
117	4,400	0.985					92,700	20 5	72,100	17 5	51,300	15 5				
122	4,600	1 075					104,000	25	84,700	21	61,000	18 5	44,900	17 5		
127	4,800	1 17							97,000	26	77,800	22 5	58,500	20.5	39,700	19.5
133	5,000	1 27							108,000	31	90,000	27	72,000	24	53,200	22.5
139	5,250	1.40							123,000	39	106,000	34	88,500	30	70,700	27
146	5,500	1 54									120,000	42	104,000	37	86,600	33
152	5,750	1 68									135,000	52	119,000	45	103,000	41
159	6,000	1 83											133,000	55	117,000	50
166	6,250	1 99											148,000	66	133,000	60
172	6,500	2 15													147,000	72
179	6,750	2 32													162,000	84

TURBO-UNDERGRATE BLOWERS

Design 3

Dimensions, Capacities, Horse Powers

Turbo Undergrate Blower—Design 3



Sturtevant Turbo Undergrate Blower — Design No. 3
This machine may be equipped with more hand controlled nozzles if desired

TURBO-UNDERGRATE BLOWER
Design 3

SPECIFICATIONS

General. There shall be furnished a No. . . . . Design 3 Sturtevant Turbo-Undergrate Blower. The fan wheel shall be not less than . . . . . . inches diameter, and the inside diameter of the thimble shall be . . . . . . inches. Blower shall have a capacity of . . . . cubic feet per minute against a resistance . . . . . . inch water gauge and shall operate at approximately . . . . . . R. P. M., and require approximately . . . . . . B. H. P.

Thimble. The thimble shall be of cast iron and shall have the end at which the air enters curved so as to offer no sharp angle to the entering air.

Fan Wheel. The fan wheel shall be of the disc type of sheet aluminum blades, riveted to a bronze hub with hard-drawn copper rivets. The hub shall be accurately machined, and the wheel shall be overhung on the extended turbine shaft.

Turbine. The turbine shall be of the single pressure multi-velocity type, and the casing shall be provided with inspection holes fitted with removable plugs. The wheel shall be one solid forging with the buckets milled in the rim. Three reversing buckets shall be cast in one piece with the nozzle. Individual hand-operated nozzle control valves shall be provided. The set shall be furnished with a floating stuffing box, and on the shaft outside the stuffing box there shall be a water deflector.

Bearings. The bearings shall be oil-ring lubricated with journal bushings of bronze, and wrought-iron overflows. Oil gauges shall be provided.

Turbo-Undergrate Blower

EXPLANATION OF TABLES

These blowers are primarily intended to create a pressure in the ash pit of boilers or other furnaces.

The capacities are, therefore, measured with blower discharging into a closed plenum space, the maintained resistance being the static pressure in that space.

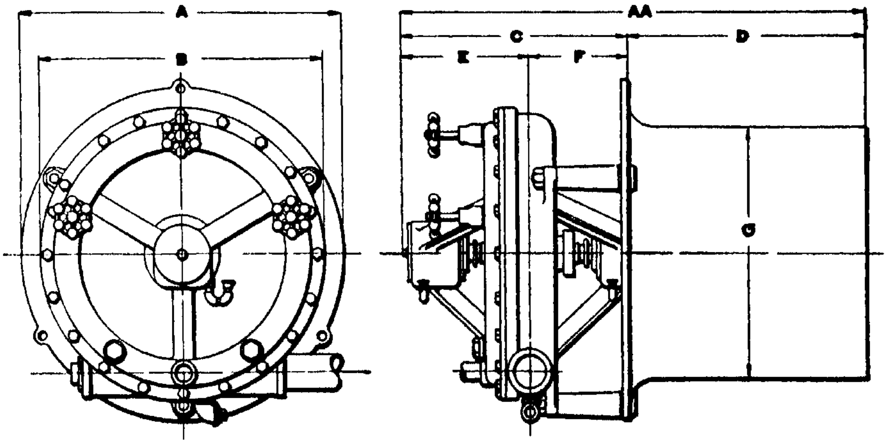
For further information as to the basis of the following tables see the general explanation of tables at the front of this book.

Turbo-Undergrate Blower
Design 3

APPROXIMATE WEIGHTS

Size	**Net Weight**
14	400
18	420
22	455
26	515

Turbo-Undergrate Blower—Design 3



Size	A	B	C	D	E	F	G	AA
14	24	21¼	16⅜	17½	9	7⅜	15¼	33⅞
18	24	21¼	16⅜	17½	9	7⅜	18¼	33⅞
22	24	21¼	16⅜	17½	9	7⅜	21¼	33⅞
26	31¾	21¼	16⅜	17½	9	7⅜	27¼	33⅞

No. 14 Turbo-Undergrate Blower—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1⅛" Water .651 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch	
				Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
1365	5000	0.693	0.18	545	0.150	283	0.170										
1640	6000	0.997	0.31	1,025	0.205	815	0.235	603	0.260	385	0.285						
1910	7000	1.36	0.50	1,460	0.28	1,270	0.310	1,090	0.345	913	0.375	727	0.40	546	0.45		
2185	8000	1.77	0.75	1,850	0.37	1,710	0.415	1,540	0.450	1,380	0.480	1,230	0.52	1,070	0.56	900	0.59
2460	9000	2.24	1.05	2,230	0.49	2,100	0.54	1,960	0.57	1,840	0.62	1,680	0.66	1,540	0.69	1,390	0.73
2730	10000	2.77	1.45	2,600	0.63	2,480	0.68	2,350	0.72	2,220	0.77	2,100	0.81	1,980	0.86	1,850	0.90
3000	11000	3.35	1.95	2,940	0.79	2,840	0.86	2,740	0.90	2,610	0.94	2,500	0.99	2,400	1.05	2,280	1.10
3280	12000	3.99	2.5	3,250	0.98	3,190	1.05	3,090	1.10	2,990	1.15	2,890	1.20	2,770	1.26	2,690	1.30
3550	13000	4.68	3.2	3,610	1.25	3,530	1.25	3,450	1.35	3,360	1.40	3,270	1.45	3,170	1.50	3,070	1.55
3820	14000	5.43	4.0	3,970	1.50	3,860	1.55	3,780	1.60	3,710	1.70	3,600	1.75	3,530	1.80	3,440	1.85
4000	15000	6.24	4.9	4,270	1.80	4,200	1.85	4,130	1.90	4,030	2.00	3,980	2.05	3,900	2.10	3,820	2.20
4370	10000	7.09	6.0	4,600	2.10	4,530	2.20	4,450	2.25	4,380	2.35	4,320	2.4	4,230	2.45	4,170	2.55
4640	17000	8.00	7.2	4,910	2.50	4,860	2.60	4,800	2.65	4,720	2.75	4,650	2.8	4,580	2.90	4,510	2.95
4920	18000	8.98	8.5	5,230	2.95	5,200	3.05	5,130	3.1	5,070	3.2	5,000	3.3	4,940	3.35	4,860	3.45

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
2460	9,000	2.24	1.05	1,110	0.66	817	0.89	538	0.97								
2730	10,000	2.77	1.45	1,590	0.99	1,340	1.10	1,100	1.20	566	1.35						
3000	11,000	3.35	1.95	2,040	1.20	1,830	1.30	1,590	1.40	1,120	1.60	646	1.80				
3280	12,000	3.99	2.5	2,460	1.45	2,270	1.55	2,050	1.65	1,630	1.85	1,210	2.10	770	2.30		
3550	13,000	4.68	3.2	2,880	1.70	2,700	1.80	2,500	1.95	2,100	2.17	1,690	2.40	1,325	2.65	902	2.80
3820	14,000	5.43	4.0	3,280	2.00	3,100	2.10	2,930	2.28	2,560	2.50	2,180	2.75	1,840	3.00	1,470	3.25
4090	15,000	6.24	4.9	3,650	2.35	3,500	2.50	3,320	2.62	3,000	2.90	2,640	3.15	2,310	3.40	1,970	3.70
4370	16,000	7.09	6.0	4,020	2.70	3,870	2.85	3,700	3.00	3,420	3.30	3,080	3.60	2,760	3.85	2,450	4.15
4640	17,000	8.00	7.2	4,380	3.15	4,230	3.3	4,080	3.45	3,800	3.75	3,480	4.05	3,200	4.40	2,890	4.65
4920	18,000	8.95	8.5	4,740	3.6	4,600	3.8	4,450	3.9	4,200	4.23	3,950	4.6	3,630	4.95	3,330	5.23

No. 18 Turbo-Undergrate Blower—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1⅛" Water .651 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch	
1125	5000	0.693	0.270	805	0.215	420	0.250										
1350	6000	0 997	0.465	1,510	0 300	1,200	0.345	900	0.385	570	0 42						
1575	7000	1.36	0 74	2,150	0 415	1,870	0.46	1,610	0.51	1,340	0.55	1,070	0 59	805	0 66		
1800	8000	1.77	1 10	2,720	0 545	2,520	0 61	2,270	0 66	2,030	0 71	1,810	0.75	1,570	0.82	1,320	0.87
2025	9000	2.24	1.55	3,290	0.725	3,080	0.79	2,880	0.84	2,710	0 91	2,470	0.96	2,270	1.00	2,060	1.10
2250	10000	2 77	2.15	3,830	0.93	3,650	1.00	3,460	1 05	3,270	1.13	3,090	1.20	2,920	1.25	2,730	1.35
2470	11000	3 35	2 85	4,330	1.15	4,190	1 25	4,030	1.30	3,840	1 40	3,690	1 45	3,540	1.55	3,360	1.60
2700	12000	3 99	3 7	4,790	1.45	4,690	1 55	4,550	1 65	4,410	1.70	4,250	1 80	4,060	1.85	3,960	1.95
2920	13000	4 68	4.7	5,320	1.80	5,200	1 85	5,090	1.95	4,950	2.05	4,830	2.15	4,680	2.25	4,580	2.30
3150	14000	5.43	5 9	5,840	2.20	5,080	2 30	5,500	2.35	5,460	2.45	5,310	2.55	5,200	2 65	5,080	2.75
3370	15000	6 24	7.2	6,300	2 65	6,190	2.70	6,080	2 80	5,950	2 90	5,860	3 00	5,760	3.10	5,630	3.25
3600	16000	7 09	8 8	6,780	3.10	6,680	3 20	6,560	3 30	6,400	3 45	6,360	3.55	6,250	3.65	6,150	3.75
3820	17000	8 00	10.5	7,240	3 70	7,150	3.80	7,070	3 95	6,960	4.05	6,800	4 15	6,770	4.25	6,660	4.35
4050	18000	8.98	12.5	7,710	4.35	7,660	4.45	7,500	4.6	7,450	4.7	7,380	4 85	7,300	4.95	7,160	5.1
4270	19000	10.0	15	8,170	5.0	8,080	5 2	8,030	5.3	7,920	5.5	7,860	5.6	7,790	5.7	7,700	5.8
4500	20000	11.1	17	8,640	5 8	8,580	6	8,500	6.1	8,410	6.3	8,360	6.4	8,290	6.5	8,180	6.6

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
2025	9000	2 24	1 55	1,630	1 20	1,200	1.30	794	1.45								
2250	10000	2.77	2.15	2,350	1.45	1,970	1.60	1,620	1.75	834	2.00						
2470	11000	3.35	2.85	3,000	1.75	2,690	1.90	2,340	2.05	1,650	2.35	950	2 60				
2700	12000	3 99	3 7	3,620	2 10	3,340	2.25	3,020	2.41	2,400	2.75	1,780	3 10	1,130	3.35		
2920	13000	4 68	4.7	4,230	2 50	3,980	2.70	3,700	2.85	3,100	3.20	2,500	3.55	1,950	3.90	1,830	4.15
3150	14000	5 43	5.9	4,830	2.95	4,560	3.10	4,300	3.30	3,760	3.70	3,210	4.05	2,700	4.45	2,160	4.75
3370	15000	6 24	7.2	5,380	3 45	5,150	3 65	4,890	3.85	4,420	4.25	3,900	4 6	3,400	5.0	2,900	5.4
3600	16000	7.09	8.8	5,920	3.98	5,680	4.20	5,450	4.42	5,030	4 83	4,530	5.3	4,060	5.7	3,600	6.1
3820	17000	8.00	10.5	6,450	4.6	6,230	4.85	6,000	5.1	5,600	5.5	5,130	6.0	4,700	6.5	4,250	6.9
4050	18000	8.98	12.5	6,970	5 3	6,780	5.6	6,550	5.8	6,180	6.2	5,800	6.8	5,350	7.3	4,900	7.7
4270	19000	10.0	15	7,470	6.1	7,300	6 3	7,100	6.5	6,720	7.0	6,300	7 6	6,000	8.1	5,550	8.6
4500	20000	11.1	17	8,000	6.8	7,850	7.1	7,630	7.4	7,300	7.9	6,920	8.5	6,570	9	6,200	9.6

No. 22 Turbo-Undergrate Blower—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
				Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1⅛" Water .651 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per sq. inch	
955	5000	0.693	0.375	1,110	0.30	580	0.340										
1145	6000	0.997	0.64	2,000	0.42	1,660	0.475	1,230	0.53	785	0.58						
1335	7000	1.36	1.00	2,980	0.58	2,600	0.64	2,220	0.70	1,860	0.76	1,480	0.82	1,110	0.92		
1525	8000	1.77	1.50	3,770	0.76	3,490	0.84	3,140	0.91	2,810	0.98	2,510	1.05	2,180	1.15	1,830	1.20
1720	9000	2.24	2.15	4,570	1.00	4,270	1.10	3,990	1.15	3,750	1.25	3,420	1.35	3,140	1.40	2,840	1.50
1910	10000	2.77	3.00	5,300	1.30	5,060	1.40	4,800	1.45	4,540	1.55	4,280	1.65	4,030	1.75	3,770	1.85
2100	11000	3.35	3.95	6,000	1.60	5,800	1.75	5,590	1.85	5,320	1.90	5,160	2.05	4,890	2.15	4,650	2.25
2290	12000	3.99	5.1	6,640	2.00	6,500	2.15	6,300	2.25	6,100	2.35	5,890	2.50	5,650	2.55	5,480	2.70
2480	13000	4.68	6.5	7,380	2.50	7,200	2.60	7,050	2.70	6,850	2.85	6,670	3.00	6,480	3.10	6,270	3.20
2670	14000	5.43	8.1	8,100	3.05	7,880	3.15	7,700	3.25	7,580	3.40	7,350	3.55	7,200	3.65	7,030	3.8
2860	15000	6.24	10.0	8,730	3.65	8,580	3.75	8,420	3.85	8,250	4.05	8,110	4.20	7,950	4.30	7,800	4.5
3050	16000	7.09	12.0	9,400	4.3	9,260	4.45	9,070	4.60	8,950	4.75	8,800	4.90	8,640	5.00	8,510	5.2
3240	17000	8.00	14.5	10,000	5.1	9,910	5.3	9,800	5.5	9,650	5.6	9,500	5.8	9,360	5.9	9,200	6.0
3440	18000	8.98	17.5	10,700	6	10,600	6.2	10,500	6.4	10,300	6.5	10,200	6.7	10,100	6.9	9,910	7.0
3625	19000	10.0	20.5	11,300	7	11,200	7.2	11,100	7.4	11,000	7.6	10,900	7.7	10,800	7.9	10,600	8.0
3820	20000	11.1	24	12,000	8	11,900	8.3	11,800	8.5	11,700	8.7	11,600	8.8	11,500	9	11,300	9.2

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2' Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
1720	9000	2.24	2.15	2,260	1.65	1,670	1.80	1,100	2.00								
1910	10000	2.77	3.00	3,250	2.00	2,730	2.20	2,250	2.40	1,160	2.75						
2100	11000	3.35	3.95	4,150	2.45	3,730	2.65	3,240	2.85	2,280	3.25	1,320	3.60				
2290	12000	3.09	5.1	5,030	2.90	4,630	3.1	4,180	3.35	3,320	3.8	2,460	4.25	1,570	4.65		
2480	13000	4.68	6.5	5,800	3.45	5,500	3.7	5,100	3.95	4,270	4.4	3,460	4.9	2,700	5.4	1,840	5.8
2670	14000	5.43	8.1	6,680	4.10	6,320	4.3	5,900	4.6	5,200	5.1	4,440	5.6	3,750	6.2	3,000	6.6
2860	15000	6.24	10.0	7,420	4.75	7,100	5.0	6,800	5.4	6,110	5.9	5,400	6.4	4,700	6.9	4,020	7.5
3050	10000	7.09	12.0	8,200	5.5	7,900	5.8	7,540	6.1	6,980	6.7	6,280	7.3	5,600	7.9	5,000	8.5
3240	17000	8.00	14.5	8,950	6.4	8,600	6.7	8,300	7.0	7,750	7.6	7,100	8.3	6,500	8.9	5,900	9.5
3440	18000	8.98	17.5	9,650	7.4	9,400	7.7	9,100	8.0	8,550	8.6	8,050	9.4	7,400	10.0	6,800	10.5
3625	19000	10.0	20.5	10,400	8.4	10,100	8.7	9,800	9.1	9,330	9.7	8,850	10.5	8,300	11.0	7,700	12
3820	20000	11.1	24	11,100	9.5	10,900	9.8	10,600	10	10,100	11	9,600	12	9,100	12.5	8,550	13

No. 26 Turbo-Undergrate Blower—Design 3

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
				Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ⅝" Water .361 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure ⅞" Water .506 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1⅛" Water .651 ozs. per sq. inch		Static Pressure 1¼" Water .723 ozs. per Sq. inch	
735	5000	0.693	0.65	1,880	0.51	980	0.58										
880	6000	0.997	1.10	3,540	0.71	2,810	0.81	2,080	0.90	1,330	0.99						
1030	7000	1.36	1.70	5,040	0.98	4,400	1.05	3,700	1.20	3,150	1.30	2,510	1.40	1,880	1.55		
1175	8000	1.77	2.55	6,380	1.30	5,900	1.45	5,310	1.55	4,760	1.65	4,250	1.80	3,690	1.90	3,100	2.05
1325	9000	2.24	3.65	7,720	1.70	7,230	1.85	6,750	2.0	6,350	2.10	5,800	2.25	5,320	2.40	4,800	2.55
1470	10000	2.77	5.0	8,970	2.20	8,570	2.35	8,120	2.5	7,680	2.65	7,250	2.80	6,830	2.95	6,390	3.1
1620	11000	3.35	6.7	10,500	2.70	9,820	2.95	9,450	3.1	9,000	3.25	8,650	3.45	8,270	3.60	7,870	3.8
1760	12000	3.99	8.7	11,200	3.40	11,000	3.60	10,700	3.8	10,300	4.00	10,000	4.20	9,570	4.35	9,270	4.6
1910	13000	4.68	11.0	12,500	4.25	12,200	4.4	11,900	4.6	11,600	4.85	11,300	5.1	11,000	5.3	10,600	5.4
2060	14000	5.43	13.5	13,700	5.2	13,300	5.4	13,000	5.5	12,800	5.8	12,400	6.0	12,200	6.2	11,900	6.4
2210	15000	6.21	17.0	14,800	6.2	14,500	6.4	14,200	6.6	14,200	6.8	13,700	7.1	13,500	7.3	13,200	7.6
2350	16000	7.09	20.5	15,900	7.3	15,700	7.5	15,300	7.8	15,300	8.1	14,900	8.3	11,600	8.5	14,400	8.8
2500	17000	8.00	24.5	17,000	8.6	16,800	8.9	16,600	9.2	16,300	9.5	16,000	9.8	15,800	10.0	15,600	10.0
2650	18000	8.98	30	18,000	10.0	17,900	10.5	17,700	10.5	17,500	11.0	17,300	11.5	17,000	11.5	16,800	12.0
2790	19000	10.0	35	19,100	12.0	18,900	12.0	18,800	12.5	18,600	13.0	18,100	13.	18,200	13.5	18,000	13.5
2940	20000	11.1	40	20,200	13.5	20,100	14.0	19,900	14.5	19,700	14.5	19,600	15	19,400	15.5	19,100	15.5

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	S.N.D. H.P.	Static Pressure 1½" Water .866 ozs. per sq. inch		Static Pressure 1¾" Water 1.01 ozs. per sq. inch		Static Pressure 2" Water 1.16 ozs. per sq. inch		Static Pressure 2½" Water 1.45 ozs. per sq. inch		Static Pressure 3" Water 1.73 ozs. per sq. inch		Static Pressure 3½" Water 2.02 ozs. per sq. inch		Static Pressure 4" Water 2.31 ozs. per sq. inch	
1325	9000	2.24	3.65	3,820	2.80	2,820	3.10	1,860	3.35								
1470	10000	2.77	5.0	5,500	3.40	4,610	3.75	3,800	4.05	1,960	4.65						
1620	11000	3.35	6.7	7,000	4.10	6,310	4.15	5,480	4.80	3,860	5.5	2,230	6.1				
1760	12000	3.99	8.1	8,500	4.95	7,850	5.3	7,100	5.7	5,610	6.5	4,170	7.2	2,660	7.9		
1910	13000	4.68	11.0	9,900	5.9	9,350	6.3	8,640	6.7	7,250	7.5	5,850	8.3	4,580	9.1	3,120	9.7
2060	14000	5.43	13.5	11,300	6.9	10,700	7.3	10,100	7.8	8,800	8.6	7,530	9.5	6,350	10.5	5,060	11.0
2210	15000	6.24	17.0	12,600	8.1	12,100	8.5	11,500	9.0	10,400	10.0	9,120	11.0	8,000	11.5	6,800	12.5
2350	16000	7.09	20.5	13,900	9.3	13,300	9.9	12,750	10.5	11,800	11.5	10,600	12.5	9,500	13.5	8,450	14.5
2500	17000	8.00	24.5	15,100	11.0	14,600	11.5	14,100	12.0	13,100	13.0	12,000	14	11,100	15.	9,950	16.0
2650	18000	8.98	30	16,400	12.5	16,000	13	15,400	13.5	14,500	14.5	13,600	16	12,800	17.	11,500	18.0
2790	19000	10.0	35	17,500	14	17,200	15	16,600	15.5	15,800	16.5	14,800	18	11,000	19.	13,000	20.0
2940	20000	11.1	40	18,800	16	18,400	17	17,900	17.5	17,100	18.5	16,300	20	15,400	21.	14,500	22.5

STURTEVANT PROPELLER FANS

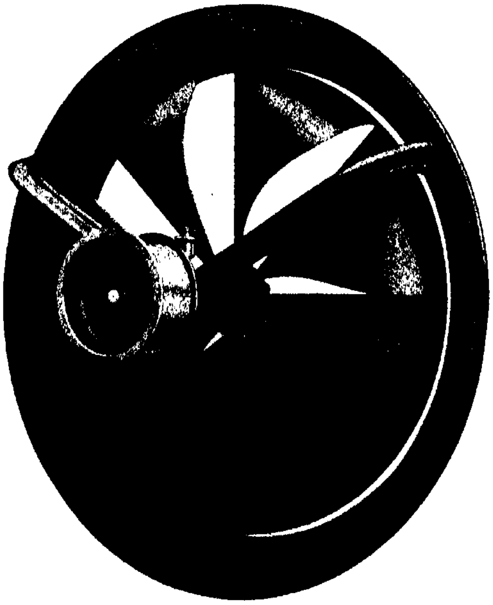
Pulley and Electric Drive

Dimensions, Capacities, Horse Powers

Sturtevant Electric Propeller Fan

Sturtevant Electric Propeller Fan

Sturtevant Pulley Propeller Fan



Sturtevant Pulley Propeller Fan

STURTEVANT PROPELLER FAN

SPECIFICATIONS

There shall be furnished a Sturtevant........ inch Propeller Fan. The total length of the fan in the direction of the shaft shall be....... inches and the total overall diameter...... inches. The fan shall have a capacity of........ cubic feet per minute and shall operate at approximately .... R. P. M., requiring approximately...... B. H. P.

The thimble shall be made of cast iron in sizes up to and including 42-inch and of steel plate in larger sizes. There shall be bolted to the flange of the thimble three arms to support the motor and the fan wheel, which latter shall be overhung on the extended motor shaft.

Motor shall be built to operate on .... current, ... volts, ... cycles, ... phase.

Sturtevant Propeller Fan

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

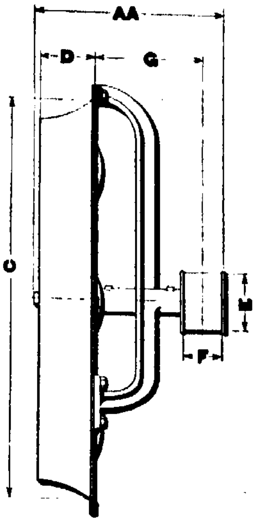
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

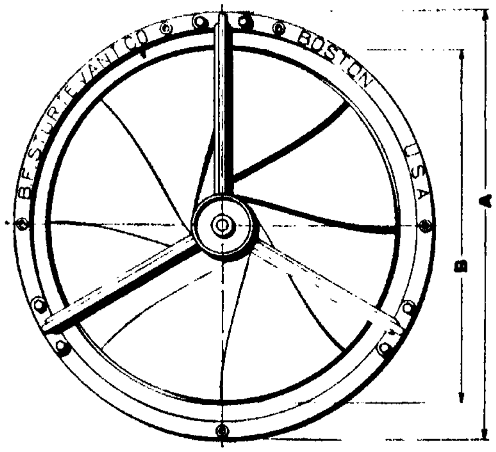
Sturtevant Propeller Fan

APPROXIMATE WEIGHTS

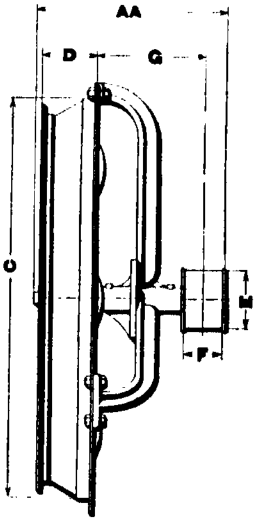
Size	Pulley	Direct Current	Alternating Current
18	60	115	175
24	125	230	250
30	160	330	400
36	226	440	500
42	400	760	
48	465	925	
54	600	900	
60	675	1000	
66	720		
72	950		
78	1050		
84	1125		
96	1375		
108	1700		
120	2000		

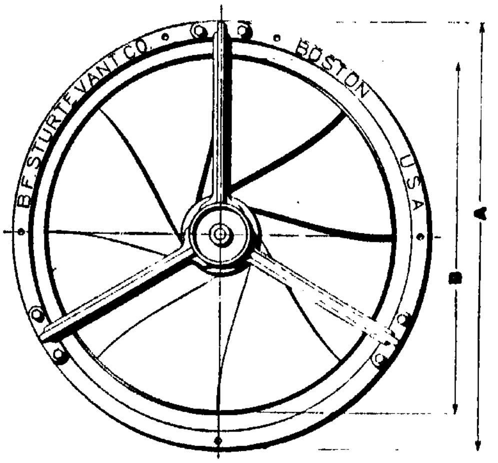
Sturtevant Pulley Propeller Fan





Size	A	B	C	D	E	F	G	A A	Shaft Diameter	Anchor Bolts
18	23¼	18	19¼	3¼	4	2½	6¼	11⅛	¾	7/16
24	31	23¼	27	4¼	5	2½	6½	12⅜	¾	7/16
30	38	30	33	4¾	6	3½	8⅝	15 5/16	⅞	9/16
36	44	36	39	5½	7	4½	11¼	19 7/16	1⅛	9/16
42	52¼	42	45¼	6½	8	5½	12⅛	21 1/16	1⅜	⅝

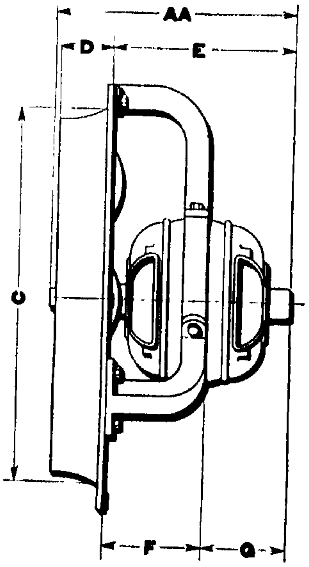


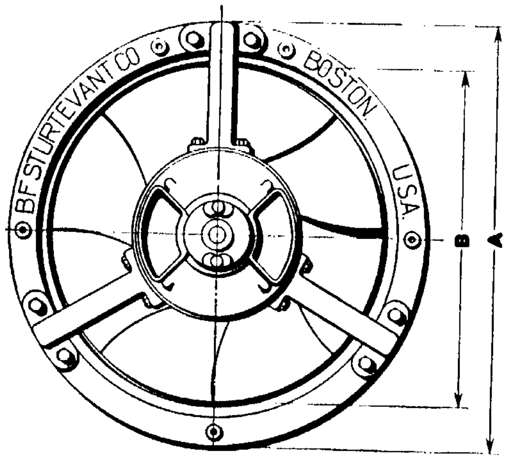


Size	A	B	C	D	E	F	G	A A	Shaft Diameter	Anchor Bolts
48	58	48	53½	7½	8	5½	13½	24 3/16	1½	⅝
54	64½	54	60	8½	9	5½	15¼	27	1 11/16	⅝
60	71	60	64¾	9½	10	6½	16	29¼	1 11/16	⅝
66	77½	66	71⅛	10	10	6½	18¼	31¾	1 15/16	¾
72	84	72	77⅝	11	12	7½	18¾	33¾	1 15/16	¾
78	90½	78	84⅛	12	14	8½	19¼	35¾	1 15/16	⅞
84	98½	84	90¼	13	14	8½	21¼	38¾	2 7/16	1
96	111½	96	103¼	15	16	8½	21¼	40⅞	2 7/16	1
108	125	108	115¾	17	18	8½	23¼	44⅞	2 15/16	1⅛
120	138	120	128¾	19	20	8½	23¾	47⅞	2 15/16	1⅛

Sturtevant Electric Propeller Fan—Medium Speed

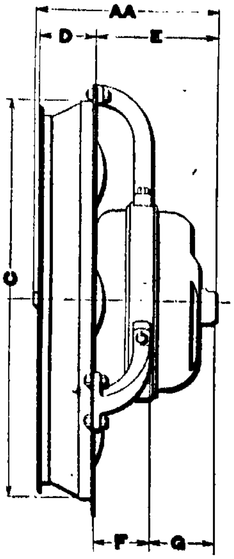
Sturtevant Direct Current Motor

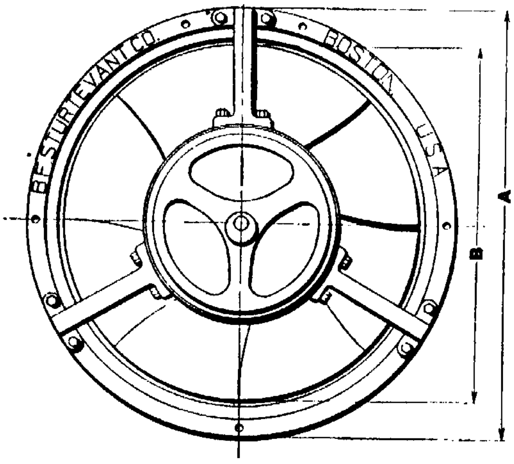




Cast-Iron Thimble

Size	Motor	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	¼ E. B.	23¼	18	19¾	3¼	10⅞	5⅞	5	11 3/16	⅝	7/16
24	¼ E. B.	31	23¾	27	4¼	9⅞	4⅞	5	14 3/16	⅝	7/16
30	½ E. B.	38	30	33	4¾	14 5/16	8	6 5/16	19⅛	¾	½
36	1 E. B.	44	36	39	5½	17	9 9/16	7 7/16	22 9/16	⅞	½
42	2 E. B.	52¼	42	45¼	6½	19½	10 7/16	9 1/16	26 1/16	1⅛	⅝
48	3 E. B.	59	48	52	7½	21 13/16	11 7/16	10½	29½	1⅜	⅝
54	5 E. B.	65½	54	58½	8½	25¼	13¾	11½	33⅞	1½	⅝



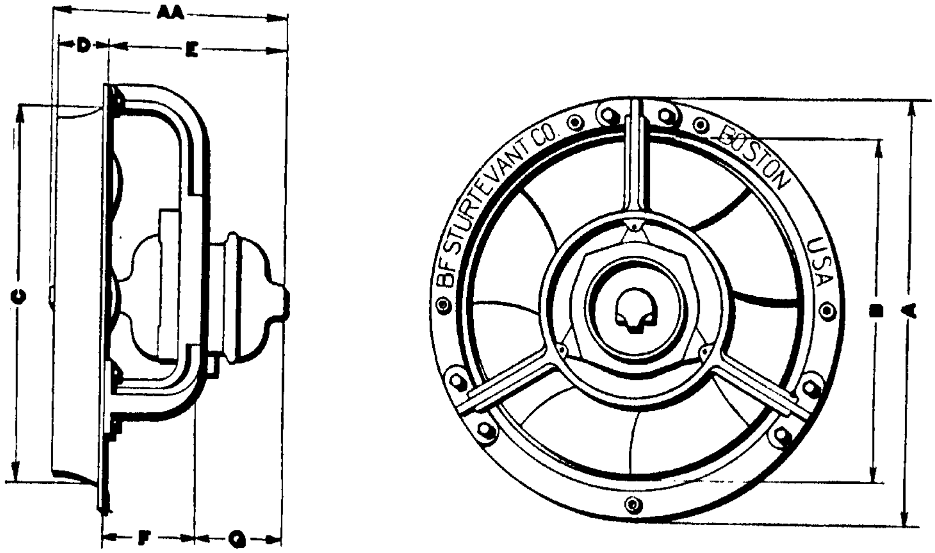


Steel-Plate Thimble

Size	Motor	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
60	1 C	71	60	64¾	9½	16½	7¾	8¾	26⅝	1 11/16	¾
66	1 C	77½	66	71⅛	10	16½	7¾	8¾	26⅝	1 11/16	¾
72	1 C	84	72	77⅝	11	15⅞	7⅛	8¾	27	1 15/16	⅞
78	1 C	90½	78	84⅛	12	14⅝	5⅞	8¾	26¾	1 15/16	⅞
84	1½ C	98¼	84	90¼	13	15¼	6⅞	8⅞	28⅞	2 3/16	1

Sturtevant Electric Propeller Fan

Alternating Current Motor



Single Phase

Fan Size	A	B	C	D	E	F	G	A A	Shaft Dia.	Anchor Bolts
18	23¼	18	19¾	3¼	8½	4 1/16	4 7/16	11⅞	¾	⅜
24	31	23¾	27	4¼	10⅛	4 9/16	6 1/16	15	1	⅜
30	38	30	33	4¾	13⅛	5⅞	7¾	18 3/16	1	½
36	44	36	39	5½	15 13/16	6 9/16	9¼	21½	1⅜	½
42	52¼	42	45¼	6½	16⅞	7½	9⅜	23⅝	1⅜	⅝
48	59	52	52	7½	17¾	7⅝	10⅛	25½	1⅞	⅝
54	65½	54	58½	8½	18¾	7⅞	10⅞	27½	1⅞	⅝

Two and Three Phase

Fan Size	A	B	C	E	F	F	G	A A	Shaft Dia.	Anchor Bolts
18	23¼	18	19¾	3½	8½	4 1/16	4 7/16	11⅞	¾	⅜
24	31	23¾	27	4¼	10⅛	4 9/16	5 9/16	14½	1	⅜
30	38	30	33	4¾	11 3/16	4⅞	6 9/16	16⅛	1	½
36	44	36	39	5½	13⅛	5½	8⅛	19 5/16	1⅛	½
42	52¼	42	45¼	6½	16⅞	7½	9¾	25⅝	1⅜	⅝
48	59	48	52	7½	15⅞	6⅝	9¼	23⅝	1⅜	⅝
54	65½	54	58½	8½	16¾	7⅞	10	25½	1⅞	⅝
60	71	60	64¾	9½	15¾	5⅞	9⅞	25½	1⅞	¾

18" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
467	2200	0.168	1,030	0.0075	256	0.030										
508	2400	0.200	1,130	0.0095	391	0.033										
552	2600	0.234	1,220	0.012	505	0.038										
595	2800	0.272	1,310	0.015	619	0.042										
637	3000	0.313	1,400	0.019	717	0.047	276	0.080								
680	3200	0.355	1,500	0.025	819	0.052	425	0.089								
722	3400	0.400	1,590	0.027	920	0.058	552	0.095								
765	3600	0.150	1,680	0.032	1,020	0.064	669	0.105								
807	3800	0.500	1,780	0.038	1,110	0.070	779	0.110	437	0.155						
850	4000	0.555	1,880	0.044	1,220	0.079	883	0.115	573	0.165						
892	4200	0.612	1,970	0.051	1,320	0.088	987	0.130	705	0.180	357	0.225				
935	4400	0.671	2,060	0.059	1,400	0.095	1,090	0.140	815	0.190	514	0.240				
974	4600	0.735	2,160	0.067			1,190	0.150	928	0.200	650	0.255				
1020	4800	0.798	2,260	0.076			1,300	0.160	1,040	0.215	781	0.270				
1060	5000	0.868	2,340	0.086			1,400	0.175	1,150	0.230	890	0.285				
1114	5250	0.957	2,470	0.099			1,530	0.195	1,270	0.250	1,010	0.300	520	0.420		
1169	5500	1.05	2,580	0.115			1,650	0.21	1,390	0.265	1,165	0.330	700	0.450		
1220	5750	1.15	2,700	0.130			1,770	0.23	1,520	0.285	1,300	0.350	865	0.475		
1273	6000	1.25	2,820	0.150			1,890	0.25	2,650	0.310	1,430	0.370	1,025	0.51	550	0.64
1328	6250	1.36	2,930	0.165			1,999	0.27	1,770	0.335	1,550	0.400	1,160	0.54	710	0.68
1380	6500	1.46	3,050	0.190					1,890	0.355	1,690	0.430	1,310	0.57	920	0.72
1433	6750	1.58	3,160	0.210					2,020	0.39	1,810	0.455	1,430	0.60	1,070	0.75
1485	7000	1.7	3,280	0.235					2,130	0.42	1,930	0.485	1,570	0.64	1,240	0.8

24" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
351	2200	0.168	1,840	0.013	456	0.053										
382	2400	0.200	2,000	0.017	695	0.059										
415	2600	0.234	2,170	0.021	800	0.067										
446	2800	0.272	2,340	0.027	1,100	0.075										
478	3000	0.313	2,500	0.033	1,270	0.083	490	0.140								
508	3200	0.355	2,670	0.040	1,460	0.002	755	0.155								
541	3400	0.400	2,830	0.048	1,630	0.100	900	0.170								
575	3600	0.450	3,000	0.057	1,810	0.115	1,190	0.185								
605	3800	0.500	3,170	0.067	1,970	0.125	1,380	0.195	776	0.275						
637	4000	0.555	3,340	0.078	2,160	0.140	1,570	0.205	1,020	0.295						
670	4200	0.612	3,500	0.090	2,350	0.155	1,750	0.230	1,250	0.320	635	0.400				
700	4400	0.671	3,670	0.105	2,490	0.17	1,940	0.250	1,450	0.335	913	0.425				
734	4600	0.735	3,840	0.120			2,120	0.270	1,650	0.355	1,160	0.455				
765	4800	0.798	4,010	0.135			2,310	0.290	1,840	0.38	1,390	0.475				
796	5000	0.868	4,170	0.150			2,480	0.310	2,040	0.41	1,580	0.50				
836	5250	0.957	4,390	0.175			2,720	0.345	2,260	0.44	1,850	0.54	924	0.74		
876	5500	1.05	4,590	0.200			2,920	0.370	2,470	0.47	2,080	0.58	1,240	0.80		
916	5750	1.15	4,800	0.230			3,140	0.410	2,710	0.51	2,320	0.62	1,540	0.84		
956	6000	1.25	5,020	0.265			3,360	0.445	2,940	0.55	2,540	0.66	1,830	0.90	980	1.15
996	6250	1.36	5,220	0.300			3,540	0.485	3,140	0.59	2,750	0.71	2,060	0.96	1,320	1.20
1035	6500	1.46	5,430	0.335					3,370	0.63	3,000	0.76	2,330	1.00	1,630	1.30
1074	6750	1.58	5,630	0.375					3,580	0.69	3,220	0.81	2,540	1.05	1,910	1.35
1114	7000	1.7	5,840	0.42					3,790	0.74	3,430	0.86	2,900	1.15	2,200	1.4

30" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
280	2200	0 168	2,860	0 020	710	0 083										
306	2400	0 200	3,130	0 026	1,090	0 093										
330	2600	0 234	3,380	0 033	1,400	0.105										
356	2800	0.272	3,640	0 042	1,700	0 115										
382	3000	0.313	3,900	0 051	1,970	0 130	965	0 220								
408	3200	0 355	4,170	0 062	2,270	0 145	1,180	0 245								
433	3400	0 400	4,130	0 075	2,550	0.160	1,530	0 260								
459	3600	0 450	4,680	0 089	2,830	0 180	1,850	0 285								
485	3800	0 500	4,950	0 105	3,080	0 195	2,160	0 305	1,230	0 435						
510	4000	0 555	5,210	0 120	3,370	0 220	2,460	0 325	1,590	0.461						
535	4200	0 612	5,470	0.140	3,680	0 245	2,740	0 360	2,960	0 495	993	0 63				
560	4400	0 671	5.720	0 160	3,900	0 265	3,030	0 390	2,270	0 52	1,430	0 66				
585	4600	0 735	6,000	0 185			3,320	0 420	2,580	0 56	1,810	0.71				
611	4800	0 798	6,250	0 210			3,610	0 450	2,880	0 60	2,170	0.74				
636	5000	0 868	6,500	0 240			3,880	0 185	3,200	0 64	2,470	0 79				
669	5250	0 957	6,840	0 275			4,260	0 54	3,540	0 69	2,890	0 84	1,440	1.15		
700	5500	1 05	7,160	0 32			4,570	0 58	3,870	0 74	3,240	0 91	1,950	1.25		
732	5750	1 15	7,490	0 36			4,910	0 64	4,240	0 80	3,610	0 96	2,400	1 30		
765	6000	1 25	7,830	0 41			5,270	0 70	4,600	0.86	3,980	1 05	2,860	1 40	1,530	1.75
796	6250	1 36	8,140	0 47			5,530	0 76	4,910	0 93	4,300	1 10	3,220	1 50	2,000	1 9
828	6500	1 46	8,460	0 52					5,270	0.99	4,700	1 20	3,640	1.55	2,560	2 0
860	6750	1 58	8,790	0 59					5,600	1.10	5,050	1 25	3,980	1 65	2,940	2 1
891	7000	1 7	9,120	0 65					5,930	1 15	5,360	1 35	4,380	1.75	3,440	2 2

36" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. In Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Presbure ½" Water 2.89 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
233	2200	0 168	4,130	0 029	1,025	0.120										
255	2400	0 200	4,510	0 038	1,560	0 135										
276	2600	0 234	4,880	0 018	2,020	0 150										
297	2800	0 272	5,250	0 060	2,480	0 170										
318	3000	0 313	5,620	0 074	2,870	0 185	1,100	0 320								
340	3200	0 355	6,000	0 090	3,280	0 205	1,700	0 355								
361	3400	0 400	6,360	0 110	3,680	0 230	2,200	0 380								
382	3600	0 150	6,750	0.130	4,070	0 255	2,670	0.410								
403	3800	0 500	7,130	0 150	4,440	0 280	3,110	0 440	1,750	0 63						
425	4000	0 555	7,510	0 175	4,860	0 320	3,540	0 465	2,290	0.66						
445	4200	0 612	7,880	0 200	5,290	0 355	3,950	0 51	2,820	0 72	1,430	0 90				
467	4400	0 671	8,250	0.235	5,600	0 38	4,360	0 56	3,260	0 75	2,060	0 96				
488	4600	0 735	8,620	0 265			4,770	0 61	3,710	0 80	2,600	1 00				
510	4800	0 798	9,020	0 305			5,210	0 65	4,150	0 86	3,120	1 05				
531	5000	0 868	9,380	0.345			5,580	0.70	4,600	0 92	3,570	1 15				
557	5250	0 957	9,850	0 395			6,140	0 77	5,100	0 99	4,160	1.20	2,080	1.70		
584	5500	1 05	10,300	0 455			6,570	0 84	5,570	1 05	4,670	1 30	2,800	1.80		
610	5750	1 15	10,800	0.52			7,070	0 92	6,100	1 15	5,210	1 40	3,470	1.90		
637	6000	1 25	11,300	0 59			7,560	1 0	6,610	1 25	5,730	1 50	4,120	2 05	2,200	2.55
063	6250	1 36	11,700	0 67			7,960	1.1	7,070	1 35	6,190	1 60	4,650	2.15	2,960	2 75
690	6500	1 46	12,200	0 75					7,590	1.40	6,770	1 70	5,250	2.25	3,670	2.9
716	6750	1 58	12,700	0 85					8,000	1 55	7,250	1 80	5,740	2.40	4,300	3 0
743	7000	1.7	13,100	0.94					8,540	1 7	7,720	1 95	6,300	2.55	4,950	3.2

42" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
200	2200	0.168	5,610	0.040	1,390	0.165										
218	2400	0.200	6,120	0.052	2,120	0.180										
236	2600	0.234	6,650	0.065	2,750	0.205										
255	2800	0.272	7,150	0.082	3,360	0.230										
273	3000	0.313	7,640	0.100	3,900	0.255	1,500	0.435								
291	3200	0.355	8,160	0.120	4,460	0.280	2,300	0.48								
309	3400	0.400	8,660	0.145	5,000	0.315	3,000	0.52								
329	3600	0.450	9,190	0.175	5,550	0.350	3,640	0.56								
346	3800	0.500	9,710	0.205	6,030	0.385	4,230	0.60	2,380	0.85						
364	4000	0.555	10,200	0.240	6,620	0.43	4,800	0.63	3,120	0.90						
382	4200	0.612	10,700	0.275	7,200	0.48	5,380	0.70	3,840	0.97	1,940	1.25				
400	4400	0.671	11,200	0.320	7,620	0.52	5,930	0.76	4,450	1.05	2,800	1.30				
418	4600	0.735	11,800	0.360			6,500	0.83	5,050	1.10	3,540	1.40				
436	4800	0.798	12,300	0.410			7,070	0.88	5,640	1.15	4,250	1.45				
455	5000	0.868	12,800	0.465			7,600	0.96	6,250	1.25	4,850	1.55				
478	5250	0.957	13,400	0.54			8,340	1.05	6,920	1.30	5,650	1.65	2,830	2.30		
500	5500	1.05	14,000	0.62			8,950	1.15	7,560	1.45	6,350	1.80	3,810	2.45		
523	5750	1.15	14,700	0.71			9,620	1.25	8,300	1.55	7,090	1.90	4,710	2.60		
545	6000	1.25	15,300	0.81			10,300	1.35	9,000	1.70	7,800	2.05	5,600	2.80	3,000	3.45
569	6250	1.36	16,000	0.91			10,800	1.5	9,620	1.80	8,410	2.20	6,310	2.90	4,030	3.70
591	6500	1.46	16,600	1.05					10,300	1.95	9,200	2.35	7,130	3.10	5,000	3.90
614	6750	1.58	17,200	1.15					11,000	2.1	9,870	2.50	7,800	3.25	5,850	4.10
636	7000	1.70	17,900	1.3					11,600	2.3	10,190	2.65	8,550	3.45	6,730	4.35

48" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
175	2200	0.168	7,320	0.052	1,820	0.210										
191	2400	0.200	8,000	0.068	2,780	0.240										
207	2600	0.234	8,660	0.085	3,600	0.270										
223	2800	0.272	9,320	0.105	4,400	0.300										
239	3000	0.313	9,970	0.130	5,100	0.330	1,960	0.57								
255	3200	0.355	10,600	0.160	5,830	0.365	3,000	0.63								
271	3400	0.400	11,300	0.190	6,530	0.410	3,920	0.68								
287	3600	0.450	12,000	0.230	7,250	0.455	4,750	0.73								
302	3800	0.500	12,700	0.270	7,870	0.50	5,530	0.78	3,100	1.10						
318	4000	0.555	13,300	0.310	8,650	0.56	6,300	0.83	4,070	1.20						
334	4200	0.612	14,000	0.360	9,400	0.63	7,030	0.91	5,020	1.25	2,540	1.60				
350	4400	0.671	14,600	0.415	9,950	0.68	7,750	0.99	5,800	1.35	3,060	1.70				
366	4600	0.735	15,300	0.475			8,480	1.10	6,600	1.40	4,630	1.80				
382	4800	0.798	16,000	0.54			9,250	1.15	7,370	1.55	5,550	1.90				
398	5000	0.868	16,600	0.61			9,940	1.25	8,170	1.65	6,330	2.00				
418	5250	0.957	17,500	0.70			10,900	1.35	9,050	1.75	7,400	2.15	3,700	3.00		
438	5500	1.05	18,300	0.81			11,700	1.50	9,800	1.90	8,300	2.35	4,980	3.20		
458	5750	1.15	19,200	0.93			12,570	1.65	10,820	2.05	9,250	2.45	6,170	3.40		
478	6000	1.25	20,000	1.05			13,500	1.80	11,750	2.20	10,200	2.65	7,340	3.60	3,920	4.50
498	6250	1.36	20,800	1.20			14,100	1.95	12,600	2.40	11,000	2.85	8,250	3.80	5,270	4.85
517	6500	1.46	21,600	1.35					13,500	2.55	12,000	3.05	9,320	4.00	6,540	5.1
537	6750	1.58	22,400	1.50					14,350	2.75	12,900	3.25	10,200	4.25	7,650	5.3
557	7000	1.70	23,300	1.65					15,150	3	13,700	3.45	11,200	4.5	8,790	5.7

54" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾' Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
156	2200	0.168	9,280	0.066	2,300	0.270										
170	2400	0.200	10,100	0.085	3,520	0.300										
184	2600	0.234	11,000	0.110	4,550	0.340										
198	2800	0.272	11,800	0.135	5,570	0.375										
212	3000	0.313	12,600	0.165	6,450	0.420	2,480	0.72								
226	3200	0.355	13,500	0.200	7,380	0.465	3,800	0.80								
240	3400	0.400	14,300	0.240	8,280	0.52	4,960	0.85								
255	3600	0.450	15,200	0.290	9,200	0.58	6,000	0.93								
269	3800	0.500	16,000	0.340	10,000	0.64	7,000	1.00	3,930	1.40						
283	4000	0.555	16,900	0.395	10,950	0.71	7,980	1.05	5,150	1.50						
297	4200	0.612	17,700	0.458	11,900	0.80	8,900	1.15	6,350	1.60	3,220	2.05				
311	4400	0.671	18,500	0.53	12,600	0.86	9,800	1.25	7,350	1.70	4,640	2.15				
325	4600	0.735	19,400	0.60			10,750	1.35	8,360	1.80	5,850	2.30				
340	4800	0.798	20,300	0.68			11,700	1.45	9,350	1.95	7,030	2.40				
354	5000	0.868	21,100	0.77			12,600	1.60	10,300	2.10	8,000	2.55				
372	5250	0.957	22,000	0.89			13,800	1.75	11,500	2.25	9,380	2.70	4,670	3.75		
389	5500	1.05	23,200	1.05			14,800	1.90	12,500	2.4	10,500	2.95	6,300	4.05		
407	5750	1.15	24,300	1.15			15,900	2.05	13,700	2.6	11,700	3.15	7,800	4.25		
425	6000	1.25	25,400	1.35			17,000	2.25	14,900	2.8	12,900	3.35	9,280	4.60	4,970	5.7
442	6250	1.36	26,400	1.5			17,900	2.45	15,900	3.0	13,900	3.60	10,400	4.85	6,650	6.1
460	6500	1.46	27,400	1.7					17,100	3.2	15,200	3.85	11,800	5.1	8,280	6.5
478	6750	1.58	28,500	1.9					18,100	3.5	16,300	4.10	12,900	5.4	9,680	6.8
495	7000	1.7	29,500	2.1					19,200	3.8	17,300	4.35	14,200	5.7	11,100	7.2

60" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
140	2200	0.168	11,400	0.081	2,850	0.330										
153	2400	0.200	12,500	0.105	4,350	0.370										
166	2600	0.234	13,600	0.135	5,640	0.420										
178	2800	0.272	14,600	0.165	6,880	0.475										
191	3000	0.313	15,600	0.205	7,980	0.52	3,060	0.89								
204	3200	0.355	16,700	0.25	9,110	0.57	4,730	0.98								
216	3400	0.400	17,700	0.30	10,200	0.64	6,130	1.05								
229	3600	0.450	18,700	0.36	11,300	0.71	7,430	1.15								
242	3800	0.500	19,800	0.42	12,300	0.78	8,680	1.25	4,850	1.75						
255	4000	0.555	20,900	0.49	13,500	0.88	9,840	1.30	6,350	1.85						
208	4200	0.612	21,800	0.56	14,700	0.98	11,000	1.45	7,850	2.00	3,970	2.50				
280	4400	0.671	22,900	0.65	15,500	1.05	12,100	1.55	9,080	2.10	5,720	2.65				
293	4600	0.735	24,000	0.74			13,300	1.70	10,300	2.25	7,250	2.85				
306	4800	0.798	25,000	0.84			14,400	1.80	11,500	2.40	8,700	2.95				
319	5000	0.868	26,000	0.95			15,500	1.95	12,800	2.55	9,900	3.15				
334	5250	0.957	27,400	1.10			17,000	2.15	14,200	2.75	11,500	3.40	5,780	4.65		
350	5500	1.05	28,600	1.25			18,300	2.35	15,400	2.95	13,000	3.65	7,780	5.0		
366	5750	1.15	30,000	1.45			19,600	2.55	16,900	3.20	14,500	3.85	9,640	5.3		
382	6000	1.25	31,300	1.65			21,000	2.8	18,400	3.45	16,000	4.15	11,500	5.7	6,140	7.1
398	6250	1.36	32,600	1.85			22,100	3	19,600	3.70	17,200	4.45	12,900	6.0	8,200	7.6
414	6500	1.46	33,900	2.10					21,100	4.00	18,800	4.8	14,600	6.3	10,200	8.0
430	6750	1.58	35,200	2.35					22,500	4.35	20,100	5.1	15,900	6.7	12,000	8.4
446	7000	1.7	36,500	2.6					23,700	4.65	21,400	5.4	17,500	7.1	13,800	8.9

66" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
127	2200	0.168	13,900	0.098	3,440	0.10										
139	2400	0.200	15,200	0.130	5,230	0.45										
150	2600	0.234	16,400	0.160	6,790	0.50										
162	2800	0.272	17,700	0.200	8,310	0.57										
174	3000	0.313	18,900	0.250	9,600	0.63	3,700	1.05								
185	3200	0.355	20,200	0.300	11,000	0.69	5,700	1.20								
197	3400	0.400	21,500	0.365	12,300	0.77	7,400	1.30								
208	3600	0.450	22,700	0.43	13,700	0.86	8,980	1.40								
220	3800	0.500	24,000	0.50	14,900	0.95	10,400	1.50	5,870	2.10						
231	4000	0.555	25,300	0.59	16,300	1.05	11,900	1.55	7,700	2.20						
243	4200	0.612	26,500	0.68	17,800	1.2	13,200	1.75	9,470	2.40	4,800	3.05				
255	4400	0.671	27,800	0.79	18,800	1.3	14,600	1.90	10,900	2.55	6,900	3.20				
266	4600	0.735	29,000	0.90			16,000	2.05	12,500	2.70	8,740	3.45				
278	4800	0.798	30,400	1.05			17,400	2.20	13,900	2.90	10,500	3.6				
289	5000	0.868	31,500	1.15			18,800	2.35	15,400	3.10	12,000	3.8				
304	5250	0.957	33,200	1.35			20,600	2.60	17,100	3.35	14,000	4.1	7,000	5.6		
318	5500	1.05	34,600	1.55			22,000	2.80	18,700	3.55	15,700	4.1	9,400	6.0		
333	5750	1.15	36,400	1.75			23,800	3.10	20,500	3.85	17,500	4.7	11,600	6.4		
347	6000	1.25	37,900	2.00			25,400	3.40	22,000	4.15	19,300	5.0	13,800	6.8	7,400	8.5
361	6250	1.36	39,500	2.25			26,700	3.65	23,800	4.5	20,800	5.4	15,600	7.2	9,920	9.2
375	6500	1.46	41,000	2.55					25,500	4.8	22,800	5.8	17,600	7.6	12,300	9.6
390	6750	1.58	42,700	2.85					27,100	5.2	21,400	6.1	19,200	8.1	14,500	10.0
405	7000	1.7	44,200	3.15					28,600	5.6	25,900	6.5	21,100	8.5	16,600	10.5

72" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water 2.89 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
117	2200	0.168	16,500	0.115	4,100	0.48										
127	2400	0.200	18,000	0.15	6,250	0.54										
138	2600	0.234	19,500	0.20	8,100	0.60										
148	2800	0.272	21,000	0.21	9,900	0.68										
159	3000	0.313	22,500	0.30	11,500	0.75	4,420	1.25								
170	3200	0.355	24,000	0.36	13,100	0.83	6,800	1.40								
180	3400	0.400	25,500	0.43	14,700	0.92	8,830	1.50								
191	3600	0.450	27,000	0.51	16,300	1.05	10,700	1.65								
202	3800	0.500	28,600	0.60	17,800	1.15	12,500	1.75	7,000	2.50						
212	4000	0.555	30,100	0.70	19,500	1.25	14,200	1.85	9,180	2.65						
223	4200	0.612	31,500	0.81	21,200	1.4	15,800	2.05	11,300	2.85	5,730	3.60				
233	4400	0.671	33,000	0.94	22,500	1.5	17,500	2.25	13,100	3.00	8,250	3.85				
244	4600	0.735	34,600	1.05			19,100	2.45	14,900	3.20	10,400	4.10				
254	4800	0.798	36,200	1.20			20,800	2.60	16,600	3.45	12,500	4.30				
265	5000	0.868	37,500	1.35			22,400	2.80	18,400	3.70	11,300	4.55				
278	5250	0.957	39,400	1.60			24,500	3.10	20,400	4.00	16,600	4.85	8,340	6.7		
292	5500	1.05	41,300	1.85			26,400	3.35	22,300	4.25	18,700	5.3	11,200	7.2		
305	5750	1.15	43,200	2.1			28,300	3.70	21,400	4.60	20,800	5.6	13,900	7.6		
318	6000	1.25	45,100	2.4			30,400	4.00	26,500	4.95	23,000	6.0	16,500	8.2	8,840	10.0
331	6250	1.36	47,000	2.7			31,900	4.35	28,300	5.3	24,800	6.4	18,600	8.6	11,900	11.0
345	6500	1.46	48,800	3.0					30,400	5.7	27,100	6.9	21,000	9.0	14,700	11.5
358	6750	1.58	50,700	3.4					32,300	6.2	29,000	7.3	23,000	9.6	17,200	12
371	7000	1.7	52,500	3.8					34,200	6.7	30,900	7.8	25,300	10	19,800	13

78" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
108	2200	0.168	19,400	0.135	4,810	0.56										
117	2400	0.200	21,200	0.180	7,330	0.63										
127	2600	0.234	22,900	0.225	9,500	0.71										
137	2800	0.272	24,700	0.28	11,500	0.79										
147	3000	0.313	26,400	0.35	13,500	0.87	5,200	1.50								
156	3200	0.355	28,200	0.42	15,400	0.97	7,980	1.65								
166	3400	0.400	29,900	0.51	17,300	1.10	10,400	1.80								
176	3600	0.450	31,700	0.60	19,200	1.20	12,500	1.95								
186	3800	0.500	33,500	0.71	20,800	1.30	14,600	2.10	8,200	2.95						
195	4000	0.555	35,300	0.82	22,800	1.50	16,600	2.20	10,800	3.10						
205	4200	0.612	37,000	0.95	24,800	1.65	18,500	2.40	13,200	3.35	6,720	4.25				
215	4400	0.671	38,700	1.10	26,300	1.8	20,500	2.60	15,300	3.50	9,670	4.5				
225	4600	0.735	40,600	1.25			22,400	2.85	17,400	3.75	12,200	4.8				
234	4800	0.798	42,400	1.40			24,400	3.05	19,500	4.05	14,700	5.0				
244	5000	0.868	44,000	1.60			26,200	3.30	21,600	4.3	16,800	5.3				
257	5250	0.957	46,200	1.85			28,800	3.65	23,900	4.7	19,500	5.7	9,800	7.9		
269	5500	1.05	48,400	2.15			30,900	3.95	26,100	5.0	21,900	6.2	13,200	8.5		
281	5750	1.15	50,700	2.45			33,200	4.3	28,700	5.4	24,500	6.5	16,300	8.9		
293	6000	1.25	53,000	2.80			35,500	4.7	31,000	5.8	26,900	7.0	19,400	9.6	10,400	12.0
306	6250	1.36	55,000	3.15			37,300	5.1	33,200	6.3	29,100	7.5	21,900	10.0	14,000	13.0
318	6500	1.46	57,300	3.55					35,600	6.7	31,800	8.1	24,700	10.5	17,300	13.5
330	6750	1.58	59,500	3.95					37,900	7.3	34,000	8.6	27,000	11.5	20,200	14
343	7000	1.7	61,700	4.4					40,000	7.9	36,200	9.2	29,600	12	23,200	15

84" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water 2.89 ozs. per sq. inch		Static Pressure ¼" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
100	2200	0.168	22,400	0.160	5,590	0.65										
109	2400	0.200	24,600	0.205	8,510	0.73										
118	2600	0.234	26,600	0.260	11,000	0.82										
127	2800	0.272	28,600	0.330	13,500	0.92										
136	3000	0.313	30,500	0.405	15,600	1.00	6,000	1.75								
145	3200	0.355	32,700	0.49	17,900	1.10	9,250	1.95								
155	3400	0.400	34,600	0.59	20,000	1.25	12,000	2.05								
164	3600	0.450	36,700	0.70	22,200	1.40	14,500	2.25								
173	3800	0.500	38,800	0.82	24,200	1.55	16,900	2.40	9,500	3.40						
182	4000	0.555	40,800	0.96	26,500	1.75	19,300	2.55	12,500	3.60						
191	4200	0.612	43,000	1.10	28,800	1.90	21,500	2.80	15,400	3.90	7,790	4.9				
200	4400	0.671	44,900	1.30	30,500	2.05	23,800	3.05	17,800	4.10	11,200	5.2				
209	4600	0.735	47,000	1.45			26,000	3.30	20,200	4.35	14,200	5.6				
218	4800	0.798	49,100	1.65			28,300	3.55	22,600	4.7	17,000	5.8				
228	5000	0.868	51,000	1.85			30,400	3.8	25,000	5.0	19,500	6.2				
239	5250	0.957	53,700	2.15			33,400	4.2	27,800	5.4	22,000	6.6	11,300	9.1		
250	5500	1.05	56,200	2.50			35,800	4.6	30,300	5.8	25,500	7.1	15,300	9.8		
262	5750	1.15	58,800	2.85			38,500	5.0	33,200	6.2	28,400	7.6	18,900	10.5		
272	6000	1.25	61,500	3.25			41,300	5.5	36,000	6.7	31,200	8.1	22,400	11.0	12,000	14.0
284	6250	1.36	63,800	3.65			43,300	5.9	38,500	7.3	33,700	8.7	25,300	11.5	16,100	15.0
296	6500	1.46	66,500	4.1					41,300	7.8	36,800	9.4	28,500	12.5	20,000	15.5
307	6750	1.58	69,000	4.6					43,800	8.5	39,500	9.9	31,200	13	23,400	16.5
318	7000	1.7	71,500	5.1					46,500	9.1	42,000	10.5	34,300	14	27,000	17.5

96″ Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
88	2200	0.168	29,300	0 21	7,300	0 85										
96	2400	0 200	32,100	0 27	11,100	0.95										
103	2600	0 234	34,700	0 34	14,400	1 05										
111	2800	0.272	37,400	0 43	17,600	1.20										
119	3000	0.313	40,000	0 53	20,400	1.30	7,850	2.25								
127	3200	0 355	42,700	0 64	23,400	1.45	12,100	2 50								
135	3400	0.400	45,300	0 77	26,100	1.64	15,700	2.70								
143	3600	0.450	48,000	0.91	29,000	1 80	19,100	2.95								
151	3800	0.500	50,700	1.05	31,600	2.00	22,200	3.15	12,500	4.50						
159	4000	0.555	53,500	1.25	34,600	2.25	25,200	3.30	16,900	4.75						
167	4200	0.612	56,000	1.45	37,700	2.5	28,100	3 65	20,100	5 1	10,150	6 4				
175	4400	0.671	58,700	1.65	39,900	2 7	31,000	4 00	23,200	5 4	14,700	6.8				
183	4600	0.735	61,500	1.90			34,000	4 35	26,500	5 7	18,500	7.3				
191	4800	0.798	64,100	2 15			37,000	4.6	29,500	6 1	22,200	7.6				
198	5000	0 868	66,600	2 45			39,800	5.0	32,700	6 6	25,400	8 1				
209	5250	0 957	70,000	2 80			43,600	5 5	36,200	7 1	29,600	8 6	14,800	12.0		
218	5500	1.05	73,400	3.25			46,800	6 0	39,600	7.6	33,200	9.3	19,900	13.0		
228	5750	1.15	76,800	3.70			50,300	6.5	43,500	8.2	37,100	9 9	24,700	13.5		
239	6000	1.25	80,300	4.20			53,900	7.1	47,100	8.8	40,800	10.5	29,300	14.5	15,700	18.0
248	6250	1 36	83,500	4.75			56,600	7.8	50,300	9 5	44,000	11.5	33,000	15.5	21,100	19.5
259	6500	1 46	86,600	5 4					54,000	10	48,200	12	37,300	16	26,200	20.5
268	6750	1.58	90,000	6 0					57,400	11	51,700	13	40,800	17	30,000	21.5
278	7000	1.70	93,400	6.7					60,700	12	54,800	14	44,800	18	35,300	22 5

108″ Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch	
78	2200	0.168	37,200	0 265	9,230	1.10										
85	2400	0.200	40,600	0 340	11,100	1 20										
92	2600	0.234	44,000	0.435	18,200	1 35										
99	2800	0.272	47,200	0.54	22,300	1.50										
106	3000	0 313	50,500	0 67	25,800	1.70	9,950	2.85								
113	3200	0.355	54,000	0 81	29,500	1 85	15,300	3.2								
120	3400	0.400	57,300	0 97	33,200	2.10	19,800	3.4								
128	3600	0 450	60,700	1 15	36,700	2.30	24,000	3 7								
135	3800	0 500	64,300	1 35	40,000	2 55	28,000	4.0	15,800	5.7						
142	4000	0.555	67,400	1.60	43,800	2.85	31,800	4 2	20,600	6 0						
149	4200	0.612	70,800	1 80	47,600	3.20	35,500	4 6	25,400	6 5	12,900	8 1				
156	4400	0 671	74,200	2 10	50,500	3 45	39,300	5 0	29,400	6 8	18,500	8 6				
163	4600	0.735	77,700	2 40			43,000	5 5	33,500	7.3	23,400	9 2				
170	4800	0.798	81,000	2.75			46,800	5.8	37,400	7.8	28,200	9.6				
177	5000	0.868	84,300	3 10			50,400	6 3	41,460	8.3	32,100	10.0				
186	5250	0 957	88,500	3 55			55,200	7.0	45,800	9 0	37,500	11.0	18,700	15 0		
195.	5500	1.05	92,800	4 1			59,200	7 6	50,200	9.6	42,000	12.0	25,200	16.0		
204	5750	1.15	97,100	4.7			63,600	8 3	55,000	10 5	46,900	12.5	31,200	17.0		
213	6000	1.25	101,000	5 3			68,700	9.1	59,500	11	51,600	13.5	37,100	18 5	19,900	23.0
222	6250	1.36	106,000	6 0			71,600	9.8	63,600	12	55,700	14.5	41,800	19 5	26,700	24 5
230	6500	1.46	110,000	6 8					68,300	13	61,000	15.5	47,300	20 5	33,100	26
230	6750	1 58	114,000	7 6					78,000	14	65,200	16 5	51,500	21.5	38,760	27
248	7000	1.70	117,000	8 5					76,900	15	69,500	17.5	56,600	23	44,600	29

120" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
70	2200	0.168	46,000	0.325	11,400	1.35										
76	2400	0.200	50,400	0.420	17,400	1.50										
83	2600	0.231	54,300	0.535	22,500	1.65										
89	2800	0.272	58,300	0.67	27,600	1.90										
96	3000	0.313	62,400	0.82	31,900	2.05	12,300	3.55								
102	3200	0.355	66,800	1.00	36,500	2.30	18,900	3.95								
108	3400	0.400	70,800	1.20	40,800	2.55	24,600	4.25								
115	3600	0.450	75,000	1.45	45,300	2.85	29,800	4.6								
121	3800	0.500	79,300	1.65	49,300	3.15	34,600	4.9	14,460	7.0						
127	4000	0.555	83,600	1.95	54,060	3.50	39,400	5.2	25,500	7.4						
134	4200	0.612	87,500	2.25	58,800	3.90	43,800	5.7	31,400	8.0	15,900	10.0				
140	4400	0.671	91,800	2.60	62,300	4.25	48,500	6.2	36,300	8.4	22,900	10.5				
146	4600	0.735	96,000	2.95			53,100	6.8	41,400	8.9	29,000	11.5				
153	4800	0.798	100,000	3.4			57,800	7.2	46,160	9.6	34,800	12.0				
159	5000	0.868	104,000	3.8			62,100	7.8	51,100	10.0	39,600	12.5				
167	5250	0.957	110,000	4.4			68,100	8.6	56,600	11.0	46,200	13.5	23,100	18.5		
175	5500	1.05	115,000	5.1			73,000	9.3	61,800	12.0	52,000	14.5	31,200	20.0		
183	5750	1.15	120,000	5.8			78,500	10	68,800	13.0	57,900	15.5	38,600	21.0		
191	6000	1.25	125,000	6.6			84,000	11	73,500	14.0	63,800	16.5	45,800	22.5	24,000	28
199	6250	1.36	131,000	7.5			88,500	12	78,500	15.0	69,000	18.0	51,700	24	32,900	30
202	6500	1.46	136,000	8.4					84,500	16.0	75,000	19.0	58,400	25	41,000	32
215	6750	1.58	141,000	9.1					89,700	17.5	80,700	20.0	63,700	27	47,800	33
223	7000	1.7	146,000	10.5					95,000	18.5	85,600	21.5	70,000	28	55,000	35

STURTEVANT-BLACKMAN PROPELLER FANS

Pulley and Electric Drive

Dimensions, Capacities, Horse Powers

Sturtevant-Blackman Propeller Fan

Sturtevant-Blackman Propeller Fan

STURTEVANT-BLACKMAN PROPELLER FAN

SPECIFICATIONS

We recommend the use of the specifications on Sturtevant Propeller Fans given on page 808. Propeller Fans of the Blackman type are built by this company only when ordered or to meet specifications. The demand for them, however, is decreasing since they are less efficient, of smaller volumetric capacity, and make more noise than Sturtevant Propeller Fans. For these reasons we strongly advise the use of the latter type.

Sturtevant-Blackman Propeller Fan

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

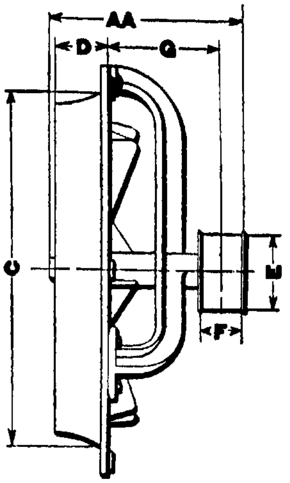
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

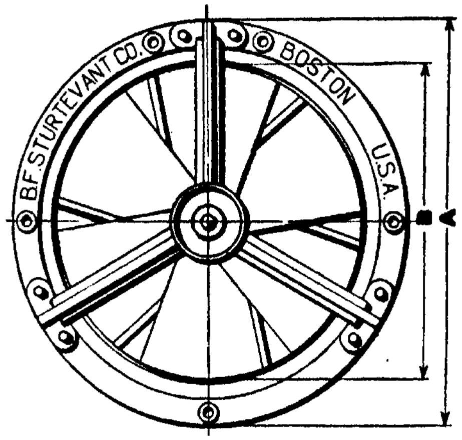
Sturtevant-Blackman Propeller Fan

APPROXIMATE WEIGHTS

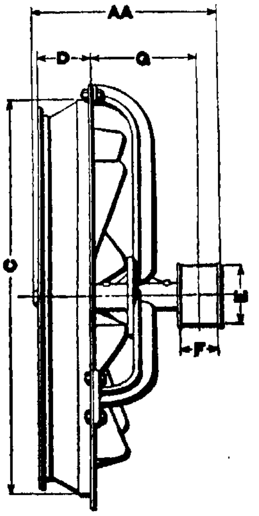
Size	Direct Current	Alternating Current
18	180	150
24	225	300
30	438	440
36	550	560
42	950	
48	1156	
54	1200	
60	1400	

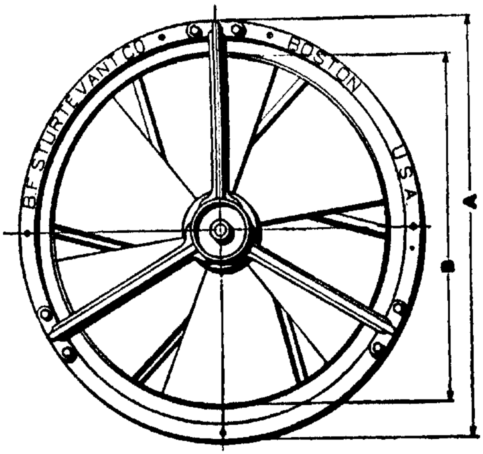
Sturtevant-Blackman Pulley Propeller Fan





Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
12	16½	12	*13½	2½	3	2	5¼	9⅛	⅝	½
18	23¾	18	19¾	3¼	4	2½	6¼	11⅛	¾	7/16
24	31	23¾	27	4¼	5	2½	6½	12⅞	¾	7/16
30	38	30	33	4¾	6	3½	8½	15 5/16	⅞	½
36	44	36	39	5½	7	4½	11¼	19 7/16	1⅛	½
42	52¼	42	45¼	6½	8	5¼	12¼	21 11/16	1¼	½

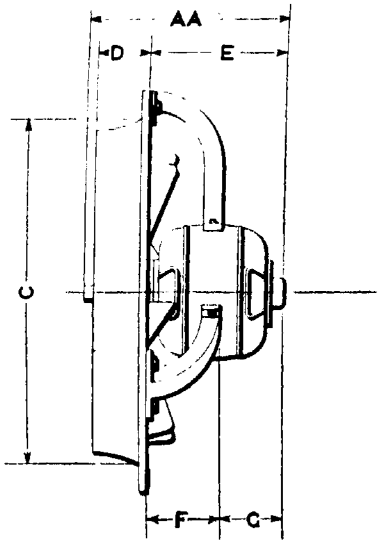


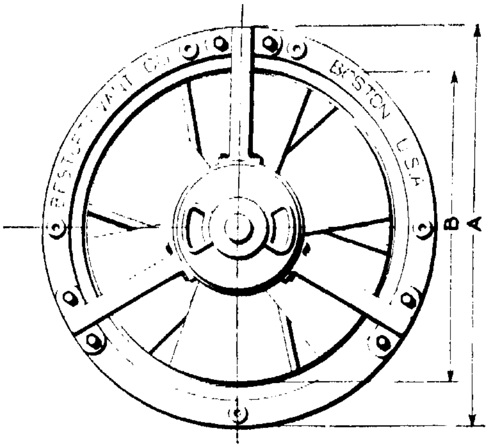


Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
48	58	48	53¼	7½	8	5½	15¼	25 11/16	1¼	¾
54	64½	54	60	8½	9	5½	17¼	29¼	1 7/16	¾
60	71	60	64¾	9½	10	6¼	18½	31½	1 11/16	¾
66	77½	66	71½	10	10	6½	21¼	34¼	1 11/16	¾
72	84	72	77¾	11	12	7½	22½	37½	1 15/16	¾
78	90½	78	84¼	12	14	8½	23¾	39⅝	1 15/16	¾
84	98½	84	90½	13	14	8½	25½	43	2 3/16	1
96	111½	96	103½	15	16	8½	26½	46½	2 7/16	1
108	125	108	115½	17	18	8½	29½	50¾	2 11/16	1⅛
120	138	120	128¾	19	20	8½	30½	54½	2 11/16	1¼

Sturtevant-Blackman Electric Propeller Fan

Sturtevant Direct Current Motors





Medium Speed

Size	Motor	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	¼ E. B.	23¼	18	19¾	3¼	10⅞	5⅞	5	14⅛	⅝	7/16
24	½ E. B.	31	23¾	27	4¼	14 5/16	7¾	6 7/16	18 9/16	¾	7/16
30	1 E. B.	38	30	33	4¾	16 11/16	9¼	7 7/16	21⅜	⅞	½
36	2 E. B.	44	36	39	5½	20 11/16	11½	9 3/16	26⅜	1⅛	½
42	3 E. B.	52¼	42	45¼	6½	23⅞	13⅜	10½	30 9/16	1⅜	⅝
48	5 E. B.	59	48	52	7½	26⅝	15⅛	11½	34 5/16	1½	⅝
54	1 C	62½	54	58½	8¼	19¼	10½	8¾	28	1 11/16	⅝
60	1 C	71	60	64¾	9½	19¼	10½	8¾	29	1 11/16	¾

Size 60 has a steel plate thimble.

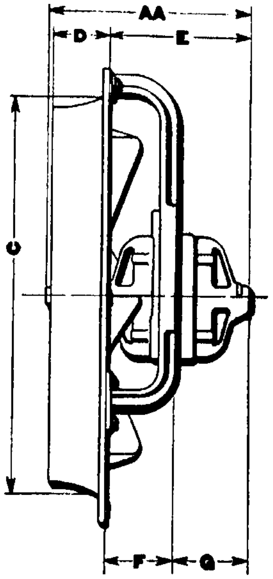
Maximum Speed

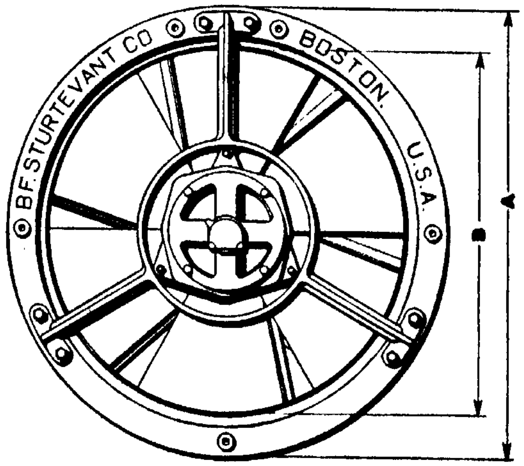
Size	Motor	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	½ E. B.	23¼	18	19¾	3¼	14 5/16	7¾	6 7/16	17 9/16	¾	7/16
24	1 E. B.	31	23¾	27	4¼	16 11/16	9¼	7 7/16	21 1/16	⅞	7/16
30	2 E. B.	38	30	33	4¾	20 7/16	11¼	9 3/16	25⅜	1⅛	½
36	3 E. B.	44	36	39	5½	23 13/16	13 7/16	10½	29⅜	1⅜	½
42	5 E. B.	52¼	42	45¼	6½	26¾	15	11½	33 3/16	1½	⅝
48	1 C	59	48	52	7½	19¼	10½	8¾	26 11/16	1 11/16	⅝
54	1 C	65½	54	58½	8½	19¼	10½	8¾	28	1 11/16	⅝
60	1½ C	71	60	64¾	9½	19¾	10¾	8⅞	29½	1 11/16	¾

Size 60 has a steel plate thimble.

Sturtevant - Blackman Electric Propeller Fan

Alternating Current Motors—1, 2 and 3 Phase





Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	23¼	18	19¾	3¼	9 3/16	4⅞	4 15/16	13 3/16	¾	¼
24	31	23¾	27	4¼	12 9/16	6	6 9/16	16 15/16	1	⅜
30	38	30	33	4¾	15½	7⅛	8⅝	20 7/16	1¼	½
36	44	36	39	5½	15½	8⅛	10⅜	24 3/16	1⅜	½
42	52¼	42	45¼	6½	18⅝	9¼	9⅜	25⅜	1⅞	⅝
48	59	48	52	7½	21⅛	10	11⅛	28⅞	1⅞	⅝
54	65½	54	58½	8½	21¼	10¼	11	30	1⅞	⅝

18" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressur 1" Water .578 ozs. per sq. inch	
467	2200	0.175	1,030	0.013	337	0.045										
508	2400	0.209	1,120	0.017	437	0.053										
552	2600	0.245	1,220	0.022	619	0.061										
595	2800	0.285	1,310	0.027	746	0.069										
637	3000	0.327	1,400	0.034	862	0.077	381	0.125								
680	3200	0.372	1,500	0.041	976	0.085	549	0.135								
722	3400	0.418	1,590	0.049	1,080	0.096	690	0.150								
765	3600	0.470	1,680	0.058	1,190	0.105	826	0.165								
807	3800	0.523	1,780	0.068	1,290	0.120	966	0.185	570	0.240						
850	4000	0.580	1,880	0.080	1,380	0.130	1,080	0.200	728	0.260						
892	4200	0.640	1,970	0.092	1,500	0.145	1,200	0.215	876	0.285	489	0.350				
935	4400	0.703	2,060	0.105	1,590	0.16	1,300	0.230	1,010	0.305	667	0.370				
974	4600	0.767	2,160	0.120			1,420	0.250	1,130	0.330	830	0.400				
1020	4800	0.835	2,250	0.140			1,530	0.270	1,260	0.355	966	0.425				
1060	5000	0.908	2,340	0.155			1,630	0.290	1,380	0.380	1,100	0.455				
1114	5250	1.00	2,470	0.180			1,760	0.320	1,530	0.415	1,260	0.495	705	0.65		
1109	5500	1.10	2,580	0.205			1,890	0.350	1,680	0.455	1,430	0.54	912	0.71		
1220	5750	1.20	2,700	0.235			2,020	0.385	1,810	0.475	1,580	0.58	1,110	0.75		
1273	6000	1.31	2,820	0.270			2,140	0.420	1,940	0.52	1,740	0.61	1,270	0.81	753	1.00
1328	6250	1.43	2,930	0.305			2,260	0.455	2,060	0.55	1,870	0.66	1,450	0.87	983	1.05
1380	6500	1.53	3,040	0.340					2,190	0.60	2,010	0.71	1,590	0.93	1,160	1.15
1433	6750	1.65	3,160	0.380					2,330	0.64	2,140	0.75	1,770	0.99	1,360	1.2
1485	7000	1.77	3,280	0.425					2,450	0.69	2,270	0.81	1,910	1.05	1,520	1.3

24" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
351	2200	0.175	1,830	0.024	600	0.083										
382	2400	0.209	2,000	0.031	867	0.095										
415	2600	0.245	2,170	0.039	1,100	0.110										
446	2800	0.285	2,330	0.049	1,330	0.125										
478	3000	0.327	2,490	0.060	1,540	0.135	680	0.225								
508	3200	0.372	2,670	0.073	1,740	0.160	979	0.245								
541	3400	0.418	2,830	0.087	1,930	0.170	1,230	0.270								
575	3600	0.470	3,000	0.105	2,110	0.190	1,470	0.300								
605	3800	0.523	3,170	0.120	2,290	0.210	1,720	0.330	1,020	0.425						
637	4000	0.580	3,340	0.140	2,460	0.230	1,920	0.355	1,290	0.465						
670	4200	0.640	3,500	0.165	2,670	0.255	2,140	0.385	1,560	0.50	871	0.62				
700	4400	0.703	3,660	0.190	2,840	0.285	2,320	0.415	1,800	0.55	1,190	0.66				
734	4600	0.767	3,830	0.215			2,530	0.45	2,010	0.59	1,480	0.72				
765	4800	0.835	4,000	0.245			2,720	0.48	2,250	0.63	1,720	0.75				
796	5000	0.908	4,160	0.28			2,910	0.52	2,450	0.68	1,970	0.81				
836	5250	1.00	4,390	0.32			3,140	0.57	2,720	0.74	2,250	0.88	1,250	1.15		
876	5500	1.10	4,590	0.37			3,370	0.62	3,000	0.81	2,540	0.96	1,620	1.25		
916	5750	1.20	4,790	0.42			3,600	0.69	3,210	0.84	2,820	1.05	1,970	1.35		
956	6000	1.31	5,020	0.48			3,810	0.75	3,460	0.92	3,090	1.10	2,260	1.45	1,340	1.80
996	6250	1.43	5,220	0.54			4,020	0.81	3,680	0.98	3,340	1.20	2,570	1.55	1,750	1.90
1035	6500	1.53	5,430	0.61					3,900	1.05	3,580	1.25	2,840	1.65	2,060	2.00
1074	6750	1.65	5,630	0.68					4,140	1.15	3,820	1.35	3,140	1.75	2,420	2.15
1114	7000	1.77	5,840	0.76					4,350	1.25	4,050	1.45	3,410	1.85	2,710	2.25

30" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
280	2200	0.175	2,860	0.037	940	0.130										
306	2400	0.209	3,130	0.048	1,360	0.150										
330	2600	0.245	3,390	0.061	1,720	0.170										
356	2800	0.285	3,650	0.076	2,080	0.190										
382	3000	0.327	3,900	0.094	2,400	0.215	1,060	0.350								
408	3200	0.372	4,170	0.115	2,720	0.245	1,530	0.380								
433	3400	0.418	4,430	0.135	3,010	0.265	1,920	0.420								
459	3600	0.470	4,690	0.160	3,300	0.295	2,300	0.465								
485	3800	0.523	4,950	0.190	3,580	0.330	2,690	0.52	1,590	0.67						
510	4000	0.580	5,220	0.220	3,850	0.360	3,000	0.55	2,020	0.73						
535	4200	0.640	5,460	0.255	4,160	0.400	3,340	0.60	2,440	0.79	1,360	0.97				
560	4400	0.703	5,730	0.295	4,430	0.445	3,630	0.65	2,810	0.85	1,860	1.05				
585	4600	0.767	6,000	0.335			3,960	0.70	3,140	0.92	2,310	1.10				
611	4800	0.835	6,260	0.385			4,250	0.75	3,510	0.98	2,690	1.20				
636	5000	0.908	6,520	0.435			4,550	0.81	3,830	1.05	3,070	1.25				
669	5250	1.00	6,840	0.50			4,900	0.89	4,200	1.15	3,520	1.35	1,960	1.80		
700	5500	1.10	7,160	0.58			5,270	0.97	4,680	1.25	3,970	1.50	2,540	2.00		
732	5750	1.20	7,500	0.66			5,620	1.10	5,020	1.30	4,400	1.60	3,080	2.10		
765	6000	1.31	7,840	0.75			5,960	1.15	5,400	1.45	4,850	1.70	3,540	2.25	2,090	2.80
796	6250	1.43	8,150	0.85			6,300	1.25	5,740	1.55	5,200	1.85	4,020	2.40	2,730	3.00
826	6500	1.53	8,460	0,95					6,100	1.7	5,590	1.95	4,430	2.60	3,220	3.15
860	6750	1.65	8,800	1.05					6,470	1.8	5,960	2.10	4,910	2.75	3,770	3.35
891	7000	1.77	9,130	1.2					6,810	1.9	6,330	2.25	5,330	2.95	4,230	3.55

36" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
233	2200	0.175	4,113	0.053	1,350	0.185										
255	2400	0.209	4,510	0.069	1,950	0.215										
276	2600	0.245	4,880	0.087	2,480	0.245										
297	2800	0.285	5,250	0.110	2,990	0.275										
318	3000	0.327	5,610	0.135	3,450	0.310	1,530	0.50								
340	3200	0.372	6,000	0.165	3,910	0.355	2,200	0.55								
361	3400	0.418	6,360	0.195	4,320	0.385	2,766	0.60								
382	3600	0.470	6,750	0.230	4,750	0.42	3,310	0.67								
408	3800	0.523	7,120	0.275	5,150	0.47	3,870	0.74	2,240	0.96						
425	4000	0.580	7,510	0.320	5,540	0.52	4,320	0.80	2,910	1.05						
445	4200	0.640	7,870	0.370	6,000	0.58	4,800	0.86	3,510	1.15	1,960	1.40				
467	4400	0.703	8,240	0.425	6,360	0.64	5,220	0.93	4,040	1.25	2,670	1.50				
488	4600	0.767	8,630	0.485			5,690	1.00	4,520	1.30	3,320	1.60				
510	4800	0.835	9,010	0.55			6,110	1.10	5,050	1.40	3,870	1.70				
531	5000	0.908	9,380	0.62			6,540	1.15	5,510	1.50	4,420	1.80				
557	5250	1.00	9,850	0.72			7,050	1.25	6,120	1.65	5,050	1.95	2,820	2.60		
584	5500	1.10	10,300	0.83			7,580	1.40	6,730	1.80	5,710	2.15	3,650	2.85		
610	5750	1.20	10,800	0.95			8,090	1.55	7,240	1.90	6,340	2.35	4,430	3.00		
637	6000	1.31	11,300	1.10			8,560	1.65	7,750	2.05	6,960	2.45	5,090	3.20	3,020	4.0
663	6250	1.43	11,700	1.20			9,050	1.8	8,270	2.20	7,470	2.65	5,790	3.50	3,940	4.3
690	6500	1.53	12,200	1.35					8,780	2.40	8,040	2.85	6,380	3.70	4,630	4.5
716	6750	1.65	12,700	1.55					9,310	2.55	8,610	3.00	7,070	3.95	5,430	4.8
743	7000	1.77	13,100	1.7					9,810	2.75	9,100	3.25	7,670	4.2	6,100	5.1

42" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
200	2200	0.175	5,610	0.072	1,840	0.255										
218	2400	0.200	6,130	0.094	2,650	0.290										
236	2600	0.215	6,640	0.120	3,370	0.330										
255	2800	0.285	7,140	0.150	4,070	0.375										
273	3000	0.327	7,640	0.185	4,700	0.42	2,080	0.68								
291	3200	0.372	8,160	0.220	5,330	0.48	2,900	0.75								
309	3400	0.418	8,660	0.265	5,890	0.52	3,760	0.82								
329	3600	0.470	9,180	0.315	6,470	0.58	4,500	0.91								
346	3800	0.523	9,700	0.370	7,020	0.64	5,260	1.00	3,110	1.30						
364	4000	0.580	10,200	0.435	7,540	0.71	5,890	1.10	3,970	1.45						
382	4200	0.640	10,700	0.50	8,160	0.79	6,550	1.15	4,780	1.55	2,660	1.90				
400	4400	0.703	11,200	0.58	8,690	0.87	7,100	1.25	5,500	1.65	3,640	2.00				
418	4600	0.767	11,700	0.66			7,750	1.35	6,160	1.80	4,520	2.20				
436	4800	0.835	12,300	0.75			8,330	1.45	6,880	1.95	5,260	2.30				
455	5000	0.908	12,800	0.85			8,900	1.60	7,500	2.05	6,010	2.50				
478	5250	1.00	13,400	0.98			9,600	1.75	8,310	2.25	6,880	2.70	3,840	3.55		
500	5500	1.10	14,000	1.15			10,300	1.9	9,160	2.50	7,770	2.95	4,970	3.85		
523	5750	1.20	14,700	1.30			11,000	2.1	9,830	2.60	8,630	3.15	6,030	4.10		
545	6000	1.31	15,300	1.45			11,700	2.3	10,600	2.80	9,480	3.35	6,930	4.40	4,100	5.
569	6250	1.48	15,900	1.65			12,300	2.5	11,300	3.00	10,200	3.60	7,880	4.75	5.360	5
591	6500	1.53	16,900	1.85					12,000	3.30	11,000	3.85	8,690	5.1	6,300	6.
614	6750	1.65	17,200	2.10					12,700	3.50	11,700	4.1	9,620	5.4	7,400	6.
636	7000	1.77	17,900	2.35					13,400	3.75	12,400	4.4	10,400	5.7	8,300	7

48" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
175	2200	0.175	7,310	0.094	2,400	0.33										
191	2400	0.209	8,000	0.125	3,460	0.38										
207	2600	0.245	8,660	0.155	4,400	0.43										
223	2800	0.285	9,320	0.195	5,310	0.49										
239	3000	0.327	9,960	0.240	6,140	0.55	2,710	0.89								
255	3200	0.372	10,700	0.290	6,950	0.63	3,900	0.98								
271	3400	0.418	11,300	0.350	7,690	0.68	4,900	1.05								
287	3600	0.470	12,000	0.415	8,450	0.75	5,880	1.20								
302	3800	0.523	12,700	0.485	9,170	0.84	6,860	1.30	4,050	1.70						
319	4000	0.580	13,300	0.57	9,850	0.92	7,680	1.40	5,170	1.85						
334	4200	0.640	13,900	0.66	10,700	1.05	8,540	1.50	6,230	2.00	3,480	2.50				
350	4400	0.703	14,600	0.75	11,300	1.15	9,270	1.65	7,180	2.20	4,740	2.65				
366	4600	0.767	15,300	0.86			10,100	1.80	8,040	2.35	5,900	2.85				
382	4800	0.835	16,000	0.98			10,900	1.90	8,980	2.50	6,870	3.00				
398	5000	0.908	16,600	1.10			11,600	2.05	9,800	2.70	7,850	3.25				
418	5250	1.00	17,400	1.30			12,600	2.25	10,900	2.95	8,970	3.50	5,010	4.65		
438	5500	1.10	18,300	1.45			13,500	2.50	12,000	3.25	10,200	3.85	6,490	5.0		
458	5750	1.20	19,200	1.70			14,400	2.75	12,800	3.35	11,300	4.15	7,860	5.3		
478	6000	1.31	20,000	1.90			15,200	3.00	13,800	3.70	12,400	4.35	9,040	5.7	5,350	7
490	6250	1.43	20,800	2.15			16,100	3.25	14,700	3.95	13,300	4.7	10,300	6.2	6,990	7.
517	6500	1.53	21,600	2.45					15,600	4.30	14,300	5.0	11,300	6.6	8,220	8
537	6750	1.65	22,500	2.70					16,500	4.55	15,300	5.4	12,600	7.1	9,650	8
557	7000	1.77	23,300	3.05					17,400	4.9	16,200	5.8	13,600	7.5	10,800	9.

54" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
156	2200	0 175	9,280	0.120	3,040	0 42										
170	2400	0 209	10,100	0.155	4,390	0 48										
184	2600	0 245	11,000	0.105	5,590	0 55										
198	2800	0 285	11,800	0 245	6,730	0 62										
212	3000	0 327	12,600	0.305	7,780	0.70	3,440	1.15								
226	3200	0 372	13,500	0 365	8,800	0 80	4,950	1.25								
240	3400	0 418	14,300	0 44	9,750	0.86	6,220	1 35								
255	3600	0 470	15,200	0 52	10,700	0 95	7,440	1 50								
269	3800	0 523	16,000	0 62	11,600	1 05	8,700	1 65	5,140	2.15						
283	4000	0 580	16,900	0 72	12,500	1 15	9,730	1 80	6,550	2.35						
297	4200	0 640	17,700	0.83	13,500	1 3	10,800	1 95	7,900	2.55	4,400	3.15				
311	4400	0 703	18,600	0.95	14,300	1.4	11,800	2 10	9,100	2 75	6,000	3 35				
325	4600	0 767	19,400	1.10			12,800	2 25	10,200	3 00	7,470	3.60				
340	4800	0 835	20,200	1 25			13,800	2 45	11,400	3 20	8,700	3.80				
354	5000	0 908	21,100	1.40			14,700	2 60	12,400	3.40	9,940	4 10				
372	5250	1 00	22,100	1 60			15,900	2 85	13,800	3 75	11,400	4.45	6,350	5.9		
389	5500	1.10	23,200	1.85			17,000	3.15	15,200	4 10	12,900	4 85	8,210	6.4		
407	5750	1.20	24,200	2.15			18,200	3.50	16,300	4 25	14,300	5 2	9,960	6.8		
425	6000	1 31	25,300	2 40			19,300	3 75	17,500	4 65	15,700	5.5	11,500	7.3	6,780	9.0
442	6250	1 43	26,300	2 75			20,400	4.1	18,600	5 0	16,800	6.0	13,000	7.8	8,850	9.7
460	6500	1 53	27,400	3 10					19,800	5.4	18,100	6.4	14,300	8.4	10,400	10 0
478	6750	1 65	28,500	3 45					20,900	5 8	19,300	6.8	15,900	8 9	12,200	11.0
495	7000	1 77	29,500	3.85					22,100	6.2	20,500	7.3	17,200	9.5	13,700	11 5

60" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water 2.89 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
140	2200	0 175	11,500	0.150	3,750	0 52										
153	2400	0.209	12,500	0 190	5,430	0 60										
166	2600	0 245	13,600	0 240	6,900	0.68										
178	2800	0.285	14,600	0 305	8,310	0 77										
198	3000	0 327	15,600	0 375	9,600	0.86	4,240	1 40								
204	3200	0.372	16,700	0.455	10,900	0.99	6,110	1.55								
216	3400	0 418	17,700	0.55	12,000	1 05	7,690	1.70								
229	3600	0.470	18,700	0.65	13,200	1.20	9,200	1 85								
242	3800	0 523	19,800	0 76	14,300	1.30	10,800	2.05	6,350	2.65						
255	4000	0 580	20,900	0.89	15,400	1.45	12,000	2.20	8,100	2.90						
268	4200	0 640	21,900	1.05	16,700	1.60	13,400	2.40	9,750	3.15	5,440	3.90				
280	4400	0 703	22,900	1 20	17,700	1 75	14,500	2 60	11,200	3.40	7,430	4.10				
293	4600	0 767	23,900	1 35			15,800	2 80	12,600	3.65	9,230	4.45				
306	4800	0 835	25,000	1.55			17,000	3 00	14,100	3 95	10,800	4 7				
319	5000	0 908	26,000	1.75			18,200	3.25	15,300	4 25	12,300	5.1				
334	5250	1.00	27,300	2.00			19,600	3.55	17,000	4 65	14,100	5.5	7,840	7 2		
350	5500	1 10	28,600	2.30			21,000	3.90	18,700	5.1	15,900	6 0	10,200	7.9		
366	5750	1 20	30,000	2 65			22,500	4 30	20,100	5 3	17,000	6 5	12,300	8.4		
382	6000	1.31	31,300	3.00			23,800	4 65	21,600	5 8	19,400	6 8	14,200	9.0	8,390	11.0
398	6250	1 43	32,500	3 40			25,100	5 7	23,000	6.2	20,800	7 4	16,100	9.7	10,900	12 0
414	6500	1 53	33,800	3 80					24,400	6 7	22,400	7 9	17,700	10 5	12,900	12.5
430	6750	1 65	35,200	4 25					25,900	7.1	23,900	8.4	19,600	11.0	15,100	13.5
446	7000	1.77	36,400	4.75					27,000	7 7	25,300	9	21,300	11.5	16,900	14

66" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
127	2200	0 175	13,900	0 180	4,550	0.63										
139	2400	0 209	15,200	0.230	6,570	0.72										
150	2600	0 245	16,400	0 295	8,360	0 82										
162	2800	0 285	17,700	0 370	10,100	0 93										
174	3000	0 327	18,900	0.435	11,600	1 05	5,140	1 70								
185	3200	0.372	20,200	0 55	13,200	1.20	7,400	1.85								
197	3400	0.418	21,400	0.66	14,600	1.30	9,300	2 05								
208	3600	0 470	22,700	0.78	16,000	1 40	11,100	2.25								
220	3800	0 523	24,000	0.92	17,400	1.60	13,000	2 50	7,690	3 20						
231	4000	0 580	25,300	1 05	18,700	1.75	14,500	2.65	9,810	3.50						
243	4200	0 640	26,500	1 25	20,200	1.95	16,200	2.90	11,800	3 80	6,600	4 7				
255	4400	0.703	27,700	1 45	21,400	2 15	17,600	3.15	13,600	4 15	9,000	5 0				
266	4600	0 767	29,000	1 65			19,200	3.40	15,200	4.45	11,200	5 4				
278	4800	0.835	30,300	1.85			20,600	3.65	17,000	4 75	13,000	5 7				
289	5000	0 908	31,600	2.10			22,000	3.9	18,600	5.1	14,900	6 1				
304	5250	1.00	33,100	2 45			23,800	4 3	20,000	5 6	17,000	6 6	9,500	8.8		
318	5500	1 10	34,700	2 80			25,500	4 7	22,600	6.1	19,200	7 3	12,300	9.6		
333	5750	1 20	36,300	3 20			27,200	5 2	24,300	6 4	21,400	7.8	14,900	10 0		
347	6000	1.31	37,900	3.65			28,900	5.6	26,200	7 0	23,400	8.3	17,200	11 0	10,200	13.5
361	6250	1 43	39,400	4 1			30,400	6.1	27,900	7.4	25,200	8.9	19,500	12.0	13,200	14.5
375	6500	1.53	41,000	4 6					29,600	8.1	27,000	9 6	21,400	12.5	15,600	15
390	6750	1.65	42,600	5.2					31,400	8.7	28,900	10	23,800	13.5	18,300	16
405	7000	1 77	44,200	5 8					33,000	9 3	30,600	11	25,800	14	20,500	17

72" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
117	2200	0.175	16,500	0 210	5,400	0 74										
127	2400	0.209	18,000	0 275	7,800	0.86										
138	2600	0.245	19,500	0 35	9,940	0 98										
148	2800	0.285	21,000	0 44	12,000	1.10										
159	3000	0.327	22,400	0 54	13,800	1.25	6,110	2 00								
170	3200	0.372	24,000	0 65	15,700	1 40	8,810	2 20								
180	3400	0.418	25,500	0.78	17,300	1.55	11,100	2 40								
191	3600	0 470	27,000	0 93	19,000	1.70	13,200	2.70								
202	3800	0.523	28,500	1.10	20,600	1 90	15,500	3 00	9,150	3.85						
212	4000	0.580	30,000	1.30	22,200	2 10	17,300	3 20	11,700	4 2						
223	4200	0.640	31,500	1.50	24,000	2 30	19,300	3 45	14,000	4 5	7,840	5.6				
233	4400	0.703	33,000	1 70	25,500	2.55	20,900	3.75	16,200	4 9	10,700	5.9				
244	4600	0.767	34,500	1.95			22,800	4.05	18,100	5 3	13,300	6 4				
254	4800	0.835	36,000	2 20			24,500	4 35	20,200	5 7	15,500	6 8				
265	5000	0 908	37,500	2.50			26,200	4.65	22,100	6 1	17,700	7.8				
278	5250	1 00	39,300	2 90			28,300	5 1	24,500	6 7	20,200	7.9	11,300	10.5		
292	5500	1.10	41,200	3 35			30,400	5.6	26,900	7 3	22,900	8.6	14,600	11 5		
305	5750	1.20	43,200	3 8			32,400	6.2	28,900	7.6	25,400	9.3	17,700	12		
318	6000	1.31	45,000	4 3			34,400	6.7	31,000	8.3	27,800	9.8	20,400	13	12,100	16.0
331	6250	1.43	46,900	4.9			36,200	7.3	33,100	8 9	29,900	10.5	23,100	14	15,800	17.0
345	6500	1.53	48,800	5.5					35,100	9.7	32,200	11.5	25,500	15	18,500	18.0
358	6750	1 65	50,700	6.1					37,300	10.5	34,400	12	28,300	16	21,700	19.5
371	7000	1.77	52,500	6.8					39,300	11	36,400	13	30,700	17	24,400	20.5

78" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
108	2200	0 175	19,400	0.250	6,340	0 87										
117	2400	0.209	21,200	0.325	9,160	1.00										
127	2600	0.245	22,900	0.41	11,700	1.15										
137	2800	0.285	24,700	0 52	14,000	1.30										
147	3000	0.327	26,400	0.63	16,200	1.45	7,170	2.35								
156	3200	0.372	28,200	0.77	18,400	1 65	10,300	2.60								
166	3400	0.418	29,900	0.92	20,300	1 80	13,000	2.85								
176	3600	0.470	31,700	1.10	22,500	2 00	15,500	3.15								
186	3800	0.523	33,500	1.30	24,200	2 20	18,200	3 50	10,700	4.5						
195	4000	0.580	35,300	1.50	26,000	2 45	20,300	3 75	13,700	4 9						
205	4200	0.640	36,900	1.75	28,200	2 7	22,600	4 05	16,500	5.3	9,210	6.5				
215	4400	0 705	38,700	2.00	29,900	3	24,500	4 35	19,000	5.8	12,600	7.0				
225	4600	0.767	40,500	2.30			26,700	4 75	21,300	6 2	15,600	7.6				
234	4800	0.835	42,300	2 60			28,700	5 1	23,800	6.7	18,200	8 0				
244	5000	0.908	44,000	2.90			30,700	5 5	25,900	7.1	20,800	8 6				
257	5250	1.00	46,100	3 40			33,100	6 0	28,800	7 8	23,800	9.3	13,300	12 5		
269	5500	1.10	48,400	3 90			35,600	6 6	31,600	8.6	26,800	10.0	17,200	13.5		
281	5750	1.20	50,600	4.45			38,000	7 3	34,000	8.9	29,800	11.0	20,800	14.0		
293	6000	1.31	52,900	5.1			40,200	7 9	36,400	9 7	32,700	11.5	23,900	15.0	14,200	19.0
306	6250	1.43	55,000	5.7			42,500	8 6	38,800	10 5	35,100	12 5	27,200	16.5	18,500	20.0
318	6500	1 53	57,200	6.4					41,300	11.5	37,800	13 5	29,900	17.5	21,800	21.0
330	6750	1 65	59,400	7.2					43,800	12	40,300	14.5	33,200	18.5	25,500	22.5
343	7000	1.77	61,600	8					46,100	13	42,700	15	36,000	20	28,600	24

84" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
100	2200	0.175	22,400	0.290	7,350	1.00										
109	2400	0.209	24,500	0.375	10,600	1.15										
118	2600	0.245	26,600	0.475	13,500	1 35										
127	2800	0.285	28,600	0.60	16,300	1.50										
136	3000	0.327	30,500	0.73	18,800	1.70	8,310	2.75								
145	3200	0.372	32,600	0 89	21,300	1.95	12,000	3.00								
155	3400	0 418	34,700	1.05	23,600	2.10	15,000	3.30								
164	3600	0.470	36,700	1 25	25,900	2 30	18,000	3 65								
173	3800	0.523	38,800	1.50	28,100	2 60	21,100	4.05	12,400	5.2						
182	4000	0.580	40,800	1 75	30,200	2.80	23,500	4 35	15,800	5.7						
191	4200	0.640	42,800	2.00	32,600	3.15	26,200	4.7	19,100	6.2	10,700	7.6				
200	4400	0.703	44,900	2.30	34,700	3 5	28,400	5 1	22,000	6.7	14,600	8.1				
209	4600	0.767	47,000	2.65			31,000	5.5	24,600	7 2	18,100	8.8				
218	4800	0.835	49,000	3.00			33,300	5.9	27,500	7.7	21,100	9.3				
228	5000	0.908	51,000	3.40			35,600	6.3	30,000	8.3	24,100	9.9				
239	5250	1 00	53,500	3 95			38,400	7 0	33,300	9.1	27,500	10.5	15,400	14.0		
250	5500	1.10	56,100	4.5			41,300	7.6	36,600	9.9	31,100	11.5	19,900	15.5		
262	5750	1.20	58,700	5.2			44,100	8.4	39,400	10.5	34,600	12.5	24,100	16 5		
272	6000	1.31	61,400	5.9			46,600	9.1	42,300	11.5	37,900	13.5	27,700	17.5	16,400	22.0
284	6250	1.43	63,900	6.6			49,200	9.9	45,000	12	40,700	14.5	31,500	19.0	21,400	23.5
296	6500	1.53	66,400	7.5					47,800	13	43,900	15.5	34,800	20 5	25,200	24.5
307	6750	1.65	69,000	8.4					50,800	14	46,800	16 5	38,500	21.5	29,600	26
318	7000	1.77	71,500	9.3					53,400	15	49,600	17.5	41,800	23	33,200	28

96" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
88	2200	0.175	29,300	0.38	9,600	1.30										
96	2400	0.209	32,000	0.49	13,900	1.55										
103	2600	0.245	34,600	0.62	17,700	1.75										
111	2800	0.285	37,300	0.78	21,300	1.95										
119	3000	0.327	39,900	0.96	21,600	2.25	10,900	3.55								
127	3200	0.372	42,600	1.15	27,900	2.50	15,700	3.90								
135	3400	0.418	45,200	1.40	30,800	2.75	19,700	4.30								
143	3600	0.470	48,000	1.65	33,800	3.00	23,600	4.75								
151	3800	0.523	50,600	1.95	36,700	3.35	27,500	5.3	16,300	6.8						
159	4000	0.580	53,400	2.25	39,400	3.70	30,800	5.7	20,700	7.4						
167	4200	0.640	56,000	2.60	42,600	4.10	34,200	6.1	25,000	8.1	13,900	9.9				
175	4400	0.703	58,600	3.00	45,200	4.55	37,200	6.6	28,800	8.8	19,000	10.5				
183	4600	0.767	61,300	3.45			40,500	7.2	32,200	9.4	23,700	11.5				
191	4800	0.835	64,000	3.95			43,500	7.7	36,000	10.0	27,500	12.0				
198	5000	0.908	66,600	4.45			46,500	8.3	39,200	11.0	31,500	13.0				
209	5250	1.00	70,000	5.1			50,200	9.1	43,600	12.0	35,900	14.0	20,000	18.5		
218	5500	1.10	73,300	5.9			53,900	10	47,900	13.0	40,600	15.5	26,000	20.0		
228	5750	1.20	76,800	6.7			57,600	11	51,500	13.5	45,000	16.5	31,500	21.5		
239	6000	1.31	80,300	7.7			61,000	12	55,200	15.0	49,500	17.5	36,200	23	21,400	28
248	6250	1.43	83,400	8.7			64,400	13	58,900	16.0	53,300	19.0	41,100	25	28,000	30
259	6500	1.53	86,600	9.7					62,500	17.0	57,300	20.0	45,300	26	33,000	32
268	6750	1.65	90,000	11					66,300	18.5	61,100	21.5	50,300	28	38,700	34
278	7000	1.77	93,400	12					69,900	19.5	64,700	23	54,500	30	43,300	36

108" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
78	2200	0.175	37,100	0.48	12,200	1.65										
85	2400	0.209	40,500	0.62	17,600	1.95										
92	2600	0.245	43,900	0.79	22,300	2.20										
99	2800	0.285	47,200	0.99	26,900	2.50										
106	3000	0.327	50,500	1.20	31,100	2.80	13,700	4.50								
113	3200	0.372	54,000	1.45	35,200	3.20	19,800	4.95								
120	3400	0.418	57,200	1.75	39,000	3.45	24,900	5.4								
128	3600	0.470	60,600	2.10	42,800	3.80	29,800	6.0								
135	3800	0.523	64,300	2.45	46,400	4.25	34,800	6.7	20,600	8.6						
142	4000	0.580	67,500	2.85	49,900	4.65	38,900	7.2	26,200	9.4						
149	4200	0.640	70,800	3.30	54,000	5.2	43,200	7.8	31,600	10.0	17,600	12.5				
156	4400	0.703	74,100	3.80	57,500	5.7	47,000	8.4	36,400	11.0	24,000	13.5				
163	4600	0.767	77,600	4.35			51,100	9.1	40,700	12.0	29,900	14.5				
170	4800	0.835	81,000	4.95			55,000	9.8	45,500	13.0	34,800	15.5				
177	5000	0.908	84,300	5.6			58,900	10.5	49,000	13.5	39,800	16.5				
186	5250	1.00	88,500	6.5			63,500	11.5	55,100	15.0	45,500	18.0	25,400	23.5		
195	5500	1.10	92,700	7.5			68,200	12.5	60,500	16.5	51,500	19.5	32,900	26		
204	5750	1.20	97,100	8.5			72,900	14.0	65,000	17.0	57,000	21	39,900	27		
213	6000	1.31	101,000	9.7			77,100	15.0	70,000	18.5	62,600	22	45,800	29	27,100	36
222	6250	1.43	106,000	11.0			81,500	16.5	74,500	20.0	67,200	24	52,100	31	35,400	39
230	6500	1.53	110,000	12.5					79,000	21.5	72,500	26	57,300	34	41,600	41
239	6750	1.65	114,500	14.0					83,900	23	77,400	27	63,600	36	48,900	43
248	7000	1.77	118,000	15.5					88,200	25	82,000	29	69,000	38	54,800	46

120" Sturtevant-Blackman Propeller Fan

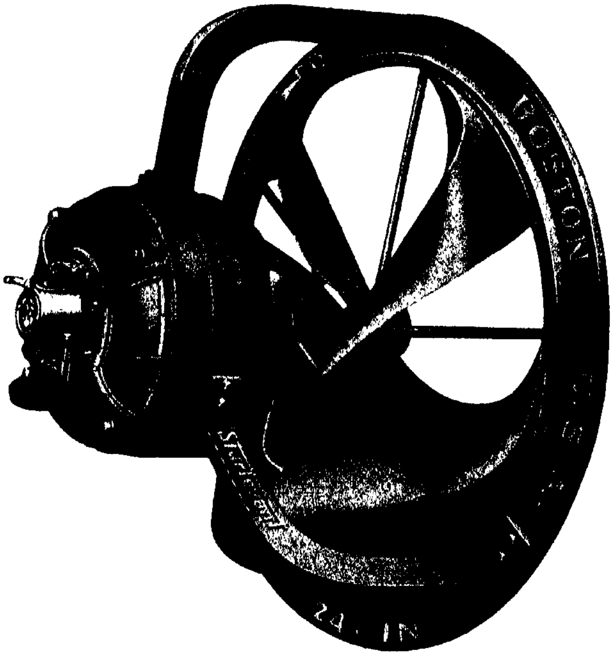
When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
70	2200	0 175	46,000	0 59	15,000	2 05										
76	2400	0.209	50,100	0.77	21,700	2.40										
83	2600	0 245	54,300	0.97	27,500	2.70										
89	2800	0.285	58,300	1 20	33,200	3 05										
96	3000	0 327	62,300	1 50	38,400	3 45	17,000	5.6								
102	3200	0.372	66,800	1 80	43,500	3 90	24,500	6.1								
108	3400	0.418	70,700	2 20	48,100	4 25	30,700	6 7								
115	3600	0.470	75,000	2 60	52,800	4.7	36,800	7 4								
121	3800	0.523	79,300	3 05	57,300	5 3	43,000	8 3	25,400	10.5						
127	4000	0.580	83,600	3 55	61,500	5.8	48,000	8.9	32,400	11.5						
134	4200	0.640	87,400	4.1	66,600	6 4	53,500	9.6	39,000	12.5	21,800	15.5				
140	4400	0 703	91,800	4.7	70,800	7.1	58,000	10 5	45,000	13.5	29,700	16.5				
146	4600	0.767	96,000	5.4			63,300	11 0	50,300	14.5	37,000	18.0				
153	4800	0 835	100,000	6.1			68,000	12.0	56,300	16.0	43,000	19.0				
159	5000	0 908	104,000	6 9			72,800	13.0	61,300	17 0	49,100	20.5				
167	5250	1.00	109,000	8.0			78,500	14.0	68,000	18.5	56,200	22	31,400	29		
175	5500	1.10	114,000	9 2			84,200	15.5	74,800	20.0	63,500	24	40,500	32		
183	5750	1.20	120,000	10 5			90,100	17 5	80,300	21 0	70,500	26	49,200	33		
191	6000	1.31	125,000	12 0			95,500	18.5	86,500	23.0	77,400	27	56,600	36	33,500	45
199	6250	1.43	130,000	13 5			101,000	20	92,000	24.5	83,000	30	64,300	39	43,700	48
207	6500	1.53	135,000	15					97,700	27	89,500	32	70,900	41	51,500	50
215	6750	1.65	141,000	17					104,000	29	95,500	34	78,500	44	60,400	54
223	7000	1.77	146,000	19					109,000	31	101,000	36	85,300	47	67,800	56

STURTEVANT-DAVIDSON
PROPELLER FANS
Pulley and Electric Drive

Dimensions, Capacities, Horse Powers

Sturtevant-Davidson Propeller Fan



Sturtevant-Davidson Propeller Fan

STURTEVANT-DAVIDSON PROPELLER FAN

SPECIFICATIONS

See specifications on page 808. Sturtevant Propeller Fans of the Davidson type are less efficient and more noisy than the standard Sturtevant Propeller Fan described on pages 805–821, and the demand for the Davidson type has therefore decreased. On special order or to meet specifications Sturtevant-Davidson Propeller Fans will be furnished, but the other type is recommended.

Sturtevant-Davidson Propeller Fan

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

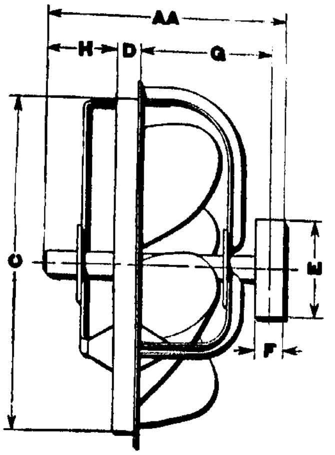
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

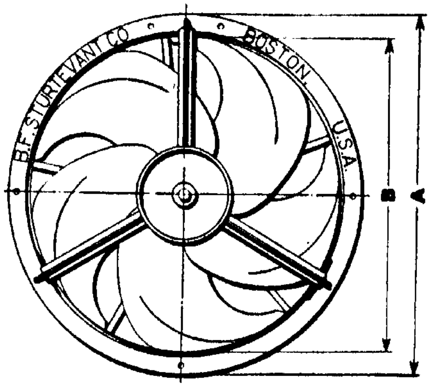
Sturtevant-Davidson Propeller Fan

APPROXIMATE WEIGHTS

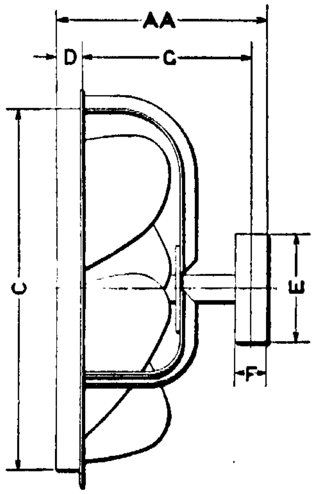
Size	Direct Current	Alternating Current	Pulley Drive
18	250	180	
24	550	250	
30	600	400	
36	800	600	
42	1300	700	
48	1600	800	
54	1750		
60	1800		

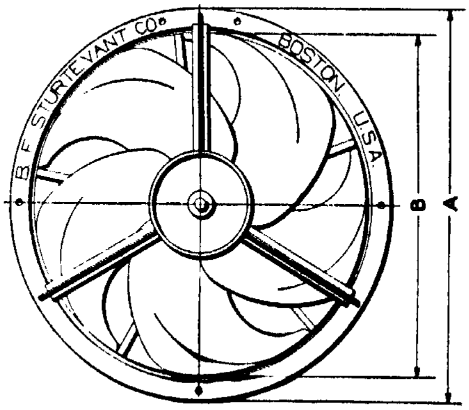
Sturtevant - Davidson Pulley Propeller Fan





Fan Size	A	B	D	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	21¾	18	19⅛	2	4	2½	11⅛	14⅜	¾	⅜
24	27⅞	24	25¼	2	5	2½	13⅞	17⅛	⅞	⅜
30	31⅞	30	31⅛	2½	6	3½	16¼	20½	1⅛	½
36	41	36	37½	2½	7	4½	18½	23¼	1¼	½
42	48	42	43⅝	3½	8	5½	22⅛	28⅜	1½	¾
48	54¼	48	49⅞	3½	8	5½	25⅛	31⅜	1$\frac{11}{16}$	¾
54	61½	54	56¼	4½	9	5½	25¾	32⅜	1$\frac{15}{16}$	¾
60	67½	60	62½	4½	10	6½	30⅜	38⅛	1$\frac{15}{16}$	¾

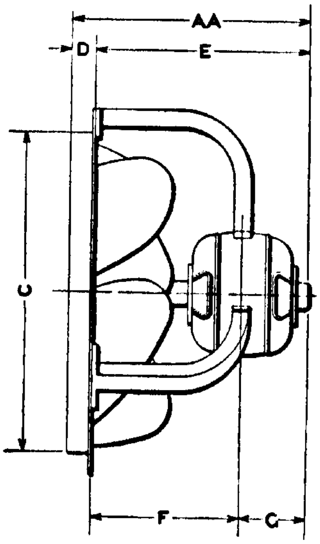


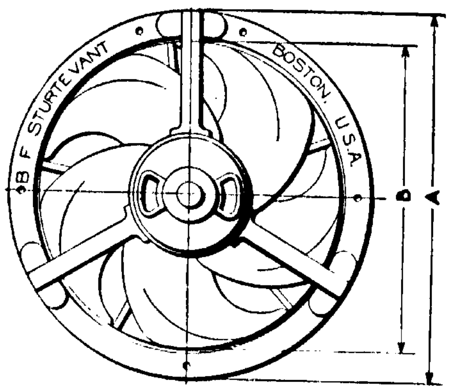


Fan Size	A	B	C	D	E	F	G	H	AA	Shaft Diameter	Anchor Bolts
66	73¾	66	68½	4½	10	6½	25½	9½	42¼	1$\frac{15}{16}$	¾
72	81¾	72	74½	5	12	7½	27½	9½	45¾	1$\frac{15}{16}$	1
78	87¾	78	80½	5	14	8½	30½	9½	49¼	1$\frac{15}{16}$	1
84	94	84	86⅜	5	14	8½	33¼	10⅞	53⅜	2$\frac{7}{16}$	1
96	106	96	98⅜	5	16	8½	37	10⅞	57⅛	2$\frac{7}{16}$	1
108	118	108	110⅜	6	18	8½	41¾	12½	64½	2$\frac{15}{16}$	1
120	130½	120	123⅛	6	20	8½	46¼	12½	69	2$\frac{15}{16}$	1

Sturtevant - Davidson Electric Propeller Fan

Sturtevant Motors





(Medium Speed)

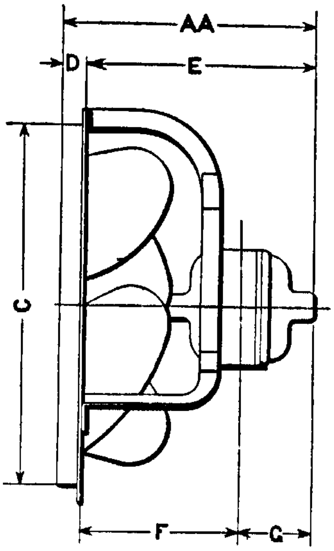
Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	21¾	18	19⅛	2	15¾	10	5¾	17¾	⅝	⅜
24	27⅞	24	25¼	2	20 15/16	13½	7 7/16	22 15/16	¾	⅜
30	34⅞	30	31⅜	2½	24 7/16	15¾	8 11/16	26 15/16	⅞	½
36	41	36	37½	2½	29 11/16	19¼	10 7/16	32 3/16	1⅛	½
42	48	42	43⅝	3½	34½	22½	12	38	1⅜	¾
48	54¼	48	49⅞	3½	38⅝	25⅜	13¼	42⅛	1½	¾
54	61½	54	56¼	4½	31¾	21¾	10	36¼	1 11/16	¾
60	67¾	60	62½	4½	34½	24¼	10¼	39	1 11/16	¾

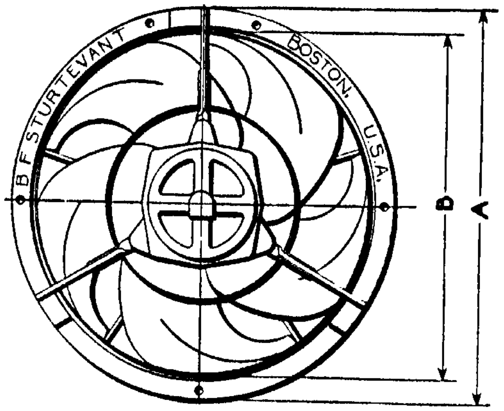
(Maximum Speed)

Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	21¾	18	19⅛	2	18 15/16	11½	7 7/16	20 13/16	¾	⅜
24	27⅞	24	25¼	2	23 7/16	14¾	8 11/16	25 1/16	⅞	⅜
30	34⅞	30	31⅜	2½	28 5/16	17¾	10 1/16	20 11/16	1⅛	½
36	41	36	37½	2½	33	21	12	35½	1⅜	½
42	48	42	43⅝	3½	37⅛	23⅞	13¼	40⅝	1½	¾
48	54¼	48	49⅞	3½	31⅛	21⅛	10	34⅝	1 11/16	¾
54	61½	54	56¼	4½	31¾	21¾	10	36¼	1 11/16	¾
60	67¾	60	62½	4½	34½	24¼	10¼	39	1 11/16	¾

Sturtevant - Davidson Electric Propeller Fan

Alternating Current **Motors** **Single and Polyphase**





Single Phase

Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	21¾	18	19⅛	2	19⅞	9⅞	9½	21⅞	¾	⅜
24	27⅞	24	25¼	2	22¾	12¼	10½	24¾	15/16	⅜
30	34⅞	30	31⅞	2½	26 7/16	14⅝	11 13/16	28 13/16	1	½
36	41	36	37½	2½	31¼	18	13½	33¾	1⅛	½
42	48	42	43⅝	3½	33¼	18¾	14½	36¾	1⅜	¾
48	54¼	48	49⅞	3½	35¼	19¾	16	38¾	1 7/16	¾

Polyphase

Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
18	21¾	18	19⅛	2	14 3/16	9¼	4 15/16	16 3/16	¾	⅜
24	27⅞	24	25¼	2	17 13/16	11¾	6 1/16	19 3/16	15/16	⅜
30	34⅞	30	31⅞	2½	22 5/16	14¾	7 9/16	24 13/16	1	½
36	41	36	37½	2½	25 15/16	17⅝	8 1/16	28 3/16	1⅛	½
42	48	42	43⅝	3½	27⅛	18¼	8⅞	30⅝	1⅜	¾
48	54¼	48	49⅞	3½	28⅝	18¾	9⅝	31⅞	1 7/16	¾

18" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
467	2200	0.152	1,330	0.017	182	0.044										
508	2400	0.181	1,450	0.022	302	0.051										
552	2600	0.212	1,570	0.028	410	0.057										
595	2800	0.246	1,700	0.035	510	0.065										
637	3000	0.283	1,820	0.045	610	0.073	180	0.125								
680	3200	0.322	1,940	0.052	712	0.082	311	0.130								
722	3400	0.363	2,050	0.062	818	0.093	428	0.140								
765	3600	0.407	2,170	0.074	929	0.105	536	0.155								
807	3800	0.453	2,300	0.087	1,040	0.115	638	0.170	309	0.230						
850	4000	0.502	2,420	0.100	1,150	0.130	742	0.185	431	0.245						
892	4200	0.554	2,550	0.115	1,260	0.145	810	0.200	549	0.265	215	0.335				
935	4400	0.608	2,650	0.135	1,390	0.16	940	0.220	654	0.285	359	0.345				
974	4600	0.665	2,780	0.155			1,050	0.240	747	0.305	495	0.385				
1020	4800	0.724	2,900	0.175			1,150	0.260	857	0.330	602	0.405				
1060	5000	0.785	3,020	0.200			1,250	0.280	954	0.350	716	0.430				
1114	5250	0.865	3,180	0.230			1,390	0.315	1,080	0.385	844	0.465	345	0.62		
1169	5500	0.95	3,320	0.265			1,530	0.345	1,210	0.420	972	0.50	517	0.67		
1220	5750	1.04	3,480	0.300			1,680	0.385	1,340	0.455	1,100	0.54	672	0.71		
1273	6000	1.13	3,620	0.340			1,850	0.425	1,470	0.50	1,220	0.58	805	0.76	360	0.98
1328	6250	1.23	3,800	0.390			2,000	0.475	1,610	0.55	1,350	0.63	938	0.81	531	1.00
1380	6500	1.33	3,920	0.435			2,150	0.52	1,750	0.59	1,480	0.68	1,060	0.86	689	1.05
1433	6750	1.43	4,080	0.49					1,870	0.64	1,610	0.72	1,190	0.93	836	1.10
1485	7000	1.51	4,230	0.54					2,030	0.7	1,740	0.79	1,310	0.97	964	1.15

24" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
351	2200	0.152	2,370	0.030	324	0.078										
382	2400	0.181	2,580	0.039	538	0.090										
415	2600	0.212	2,800	0.019	730	0.100										
416	2800	0.246	3,010	0.062	909	0.115										
478	3000	0.283	3,240	0.081	1,090	0.130	321	0.220								
508	3200	0.322	3,450	0.093	1,270	0.145	554	0.235								
541	3400	0.363	3,650	0.100	1,460	0.165	762	0.250								
575	3600	0.407	3,870	0.130	1,660	0.185	951	0.280								
605	3800	0.453	4,080	0.155	1,840	0.205	1,140	0.300	551	0.405						
637	4000	0.502	4,320	0.180	2,050	0.235	1,320	0.330	768	0.435						
670	4200	0.554	4,530	0.210	2,250	0.26	1,500	0.360	979	0.470	384	0.60				
700	4400	0.608	4,720	0.240	2,480	0.29	1,680	0.390	1,165	0.510	639	0.62				
734	4600	0.665	4,960	0.275			1,870	0.430	1,340	0.55	881	0.69				
765	4800	0.724	5,160	0.31			2,050	0.465	1,530	0.58	1,070	0.72				
796	5000	0.785	5,380	0.35			2,230	0.50	1,700	0.63	1,280	0.77				
830	5250	0.865	5,670	0.41			2,480	0.56	1,930	0.69	1,510	0.83	614	1.10		
876	5500	0.95	5,910	0.47			2,720	0.61	2,160	0.75	1,730	0.90	919	1.20		
916	5750	1.04	6,200	0.54			3,000	0.69	2,390	0.81	1,960	0.97	1,200	1.25		
956	6000	1.13	6,450	0.61			3,296	0.76	2,630	0.89	2,170	1.05	1,430	1.35	612	1.75
996	6250	1.23	6,740	0.69			3,570	0.84	2,870	0.98	2,400	1.10	1,670	1.45	944	1.8
1035	6500	1.33	6,980	0.78			3,820	0.02	3,110	1.05	2,640	1.20	1,880	1.55	1,230	1.9
1074	6750	1.43	7,260	0.87					3,340	1.15	2,800	1.30	2,020	1.65	1,490	2.0
1114	7000	1.54	7,520	0.97					3,620	1.25	3,110	1.41	2,340	1.75	1,720	2.1

30″ Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water .289 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch	
280	2200	0.152	3,690	0.047	508	0 120										
306	2400	0.181	4,030	0.061	842	0 140										
330	2600	0 212	4,370	0 077	1,140	0.160										
356	2800	0.246	4,710	0 097	1,420	0 180										
382	3000	0.283	5,070	0 125	1,700	0 200	502	0.340								
408	3200	0 322	5,380	0 145	1,980	0.230	865	0.365								
433	3400	0 363	5,700	0 175	2,280	0.260	1,190	0 395								
459	3600	0 407	6,040	0 205	2,580	0 290	1,490	0 435								
485	3800	0 453	6,380	0 240	2,880	0.325	1,780	0 47	860	0.63						
510	4000	0 502	6,730	0 280	3,210	0 365	2,070	0 52	1,200	0 68						
535	4200	0 554	7,080	0 325	3,520	0 40	2,330	0.56	1,530	0 73	600	0 93				
560	4400	0 608	7,370	0 375	3,880	0 45	2,620	0 61	1,820	0 79	996	0 96				
585	4600	0.665	7,730	0 43			2,920	0 68	2,080	0 85	1,380	1.05				
611	4800	0 724	8,060	0 49			3,210	0 73	2,380	0 91	1,680	1 10				
636	5000	0 785	8,400	0 55			3,490	0 78	2,650	0 98	1,990	1 20				
669	5250	0 865	8,850	0 64			3,870	0 87	3,010	1.10	2,350	1.30	958	1.75		
700	5500	0 95	9,230	0 74			4,240	0 96	3,380	1 15	2,710	1 40	1,440	1.85		
732	5750	1.04	9,680	0 84			4,680	1 10	3,730	1 25	3,050	1 50	1,870	2.00		
765	6000	1.13	10,100	0 95			5,140	1 20	4,120	1 40	3,390	1.60	2,240	2 10	1,000	2.70
796	6250	1 23	10,500	1 10			5,570	1.30	4,480	1 55	3,750	1 75	2,610	2 25	1,480	2 80
826	6500	1.33	10,900	1 20			5,980	1.45	4,860	1 65	4,120	1.9	2,940	2.4	1,920	3 00
860	6750	1 43	11,400	1 35					5,220	1 75	4,470	2 0	3,320	2 6	2,320	3.15
891	7000	1 54	11,800	1 5					5,650	1.95	4,850	2 2	3,650	2.7	2,600	3.25

36″ Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛″ Water .0722 ozs. per sq. inch		Static Pressure ¼″ Water .145 ozs. per sq. inch		Static Pressure ⅜″ Water .217 ozs. per sq. inch		Static Pressure ½″ Water 2.89 ozs. per sq. inch		Static Pressure ¾″ Water .434 ozs. per sq. inch		Static Pressure 1″ Water .578 ozs. per sq. inch	
233	2200	0.152	5,320	0 067	729	0 175										
255	2400	0.181	5,810	0 088	1,210	0 200										
276	2600	0 212	6,280	0 110	1,640	0 225										
297	2800	0.246	6,780	0 140	2,040	0 260										
318	3000	0 283	7,280	0 180	2,440	0.290	722	0 49								
340	3200	0 322	7,770	0 210	2,850	0 330	1,250	0 53								
361	3400	0 363	8,210	0 250	3,270	0 375	1,720	0 57								
382	3600	0 407	8,690	0 295	3,720	0.415	2,140	0 63								
403	3800	0 453	9,190	0 350	4,140	0.465	2,550	0.68	1,240	0.91						
425	4000	0 502	9,700	0 405	4,610	0.52	2,970	0.75	1,730	0 98						
445	4200	0.554	10,200	0 47	5,050	0 58	3,360	0 81	2,200	1.05	863	1 35				
467	4400	0 608	10,600	0 54	5,570	0 65	3,770	0 87	2,620	1.15	1,440	1.40				
488	4600	0 665	11,200	0 62			4,190	0.97	2,990	1 20	1,980	1 55				
510	4800	0 724	11,600	0.70			4,620	1 05	3,430	1 30	2,410	1 60				
531	5000	0 785	12,100	0.79			5,020	1.15	3,820	1 40	2,860	1.70				
557	5250	0.865	12,800	0.92			5,570	1 25	4,340	1 55	3,380	1.85	1,380	2.50		
584	5500	0 95	13,300	1.05			6,110	1.40	4,870	1 70	3,890	2.00	2,070	2.70		
610	5750	1.04	13,900	1 20			6,740	1 55	5,370	1 85	4,390	2 15	2,690	2.85		
637	6000	1 13	14,500	1 35			7,390	1.70	5,900	2 00	4,880	2.30	3,230	3.05	1,440	3.9
663	6250	1 23	15,200	1 55			8,010	1 90	6,470	2.20	5,400	2 50	3,760	3.25	2,120	4.0
690	6500	1 33	15,700	1 75			8,600	2 05	6,980	2 35	5,930	2 75	4,230	3.45	2,760	4.3
716	6750	1 43	16,400	1.95					7,500	2 55	6,430	2 90	4,780	3 7	3,350	4.5
743	7000	1 54	16,900	2 2					8,140	2 8	6,980	3 15	5,250	3.9	3,860	4.7

42" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. Inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
200	2200	0 152	7,230	0 091	992	0.240										
218	2400	0.181	7,910	0.120	1,650	0.275										
236	2600	0.212	8,550	0.150	2,240	0.310										
255	2800	0.246	9,220	0 190	2,780	0.350										
273	3000	0.283	9,910	0.250	3,320	0.395	982	0 67								
291	3200	0 322	10,600	0.285	3,880	0.445	1,700	0.71								
309	3400	0.363	11,200	0.340	4,460	0 51	2,330	0.77								
329	3600	0 407	11,900	0.400	5,080	0 56	2,920	0 85								
346	3800	0.453	12,500	0.475	5,640	0.63	3,480	0 92	1,690	1 25						
364	4000	0.502	13,200	0.55	6,280	0.71	4,050	1.00	2,350	1.35						
382	4200	0 554	13,900	0 64	6,870	0.79	4,570	1.10	3,000	1 45	1,180	1.85				
400	4400	0.608	14,500	0.73	7,570	0.88	5,120	1.20	3,560	1 55	1,960	1 90				
418	4600	0.665	15,200	0.84			5,720	1.30	4,070	1.65	2,700	2 10				
436	4800	0 724	15,800	0.95			6,300	1.40	4,670	1 80	3,280	2 20				
455	5000	0 785	16,500	1.10			6,850	1.55	5,200	1.90	3,900	2.35				
478	5250	0.865	17,400	1.25			7,600	1.70	5,910	2 10	4,600	2 55	1,880	3 40		
500	5500	0 95	18,100	1.45			8,320	1 85	6,610	2.30	5,300	2 75	2,810	3.65		
523	5750	1 04	19,000	1.65			9,180	2 1	7,300	2 50	5,980	2.95	3,660	3.90		
545	6000	1.13	19,800	1.85			10,100	2 3	8,030	2 75	6,640	3.15	4,380	4.15	1,970	5.3
569	6250	1.23	20,600	2.10			10,900	2.6	8,780	3 00	7,340	3.45	5,110	4.4	2,890	5.5
591	6500	1 33	21,400	2.35			11,700	2 8	9,520	3.20	8,060	3.70	5,750	4.7	3,770	5.8
614	6750	1.43	22,200	2.65					10,200	3 45	8,760	3.95	6,500	5.0	4,550	6.2
636	7000	1.54	23,000	2.95					11,100	3.8	9,490	4 3	7,150	5.3	5,260	6.4

48" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
175	2200	0.152	9,450	0 120	1,300	0 310										
191	2400	0 181	10,300	0 155	2,150	0.360										
207	2600	0.212	11,200	0 200	2,920	0 405										
223	2800	0.246	12,000	0.250	3,630	0.46										
239	3000	0 283	13,000	0 325	4,330	0.52	1,280	0 88								
255	3200	0.322	13,800	0 370	5,070	0 58	2,210	0 93								
271	3400	0 363	14,600	0.445	5,820	0 66	3,040	1.00								
287	3600	0.407	15,500	0 53	6,610	0 74	3,810	1.10								
302	3800	0.453	16,400	0.62	7,360	0 83	4,530	1.20	2,200	1 60						
319	4000	0.502	17,300	0 72	8,190	0.93	5,280	1 35	3,070	1.75						
334	4200	0.554	18,100	0.84	8,970	1.00	5,970	1 45	3,910	1 85	1,540	2.40				
350	4400	0.608	18,900	0 96	9,900	1.15	6,390	1.55	4,650	2,05	2 550	2 45				
366	4600	0.666	19,800	1 10			7,460	1.70	5,320	2.20	3,520	2.75				
382	4800	0 724	20,600	1 25			8,200	1 85	6,100	2.35	4,280	2.90				
398	5000	0 785	21,500	1.40			8,920	2 00	6,780	2 50	5,080	3.05				
418	5250	0.865	22,600	1 65			9,900	2 20	7,720	2 75	6,020	3.30	2,450	4.40		
438	5500	0 95	23,700	1 90			10,900	2.45	8,640	3 00	6,920	3.55	3,670	4 75		
458	5750	1 04	24,800	2 15			12,000	2.75	9,540	3 25	7,820	3 85	4,770	5 1		
478	6000	1.13	25,800	2 45			13,200	3.05	10,500	3 55	8,660	4.10	5,730	5.4	2,560	7 0
498	6250	1.23	26,900	2.75			14,200	3.35	11,500	3 90	9,570	4.50	6,680	5.8	3,770	7.2
517	6500	1.33	27,900	3 10			15,300	3.7	12,400	4.20	10,500	4.85	7,530	6.2	4,900	7.6
537	6750	1 43	29,100	3.45					13,300	4.50	11,400	5.2	8,480	6.6	5,950	8.1
557	7000	1.54	30,000	3.85					14,500	4.95	12,400	5.6	9,320	6 9	6,880	8.3

54" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
156	2200	0.152	12,000	0.150	1,640	0.395										
170	2400	0.181	13,100	0.195	2,720	0.455										
184	2600	0.212	14,200	0.250	3,700	0.51										
198	2800	0.246	15,300	0.315	4,600	0.58										
212	3000	0.283	16,400	0.41	5,480	0.65	1,620	1.10								
226	3200	0.322	17,500	0.47	6,410	0.74	2,800	1.20								
240	3400	0.362	18,500	0.56	7,370	0.84	3,850	1.30								
255	3600	0.407	19,600	0.67	8,380	0.93	4,820	1.40								
269	3800	0.453	20,700	0.78	9,320	1.05	5,740	1.50	2,780	2.05						
283	4000	0.502	21,800	0.91	10,400	1.20	6,680	1.70	3,880	2.20						
297	4200	0.554	22,800	1.05	11,400	1.30	7,550	1.80	4,950	2.35	1,940	3.00				
311	4400	0.608	23,900	1.20	12,500	1.45	8,470	1.95	5,880	2.57	3,230	3.10				
325	4600	0.665	25,100	1.40			9,450	2.20	6,730	2.75	4,450	3.45				
340	4800	0.724	26,100	1.60			10,400	2.35	7,720	2.95	5,430	3.65				
354	5000	0.785	27,200	1.80			11,300	2.55	8,590	3.15	6,450	3.85				
372	5250	0.865	28,700	2.05			12,500	2.80	9,700	3.50	7,610	4.2	3,100	5.6		
389	5500	0.95	29,900	2.35			13,800	3.10	10,900	3.80	8,750	4.5	4,650	6.0		
407	5750	1.04	31,400	2.7			15,200	3.50	12,100	4.10	9,880	4.9	6,050	6.4		
425	6000	1.13	32,700	3.1			16,700	3.85	13,300	4.50	11,000	5.2	7,250	6.8	3,250	8.8
442	6250	1.23	34,100	3.5			18,000	4.25	14,500	4.95	12,100	5.7	8,450	7.3	4,770	9.1
460	6500	1.33	35,300	3.9			19,300	4.65	15,700	5.3	13,300	6.1	9,500	7.8	6,200	9.7
478	6750	1.43	36,800	4.4					16,900	5.7	14,500	6.5	10,700	8.3	7,530	10.0
495	7000	1.54	38,100	4.9					18,300	6.3	15,700	7.1	11,800	8.8	8,690	10.5

60" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
140	2200	0.152	14,800	0.185	2,030	0.49										
153	2400	0.181	16,200	0.245	3,300	0.56										
166	2600	0.212	17,500	0.310	4,570	0.63										
178	2800	0.246	18,800	0.385	5,680	0.72										
191	3000	0.283	20,300	0.51	6,780	0.81	2,010	1.35								
204	3200	0.322	21,500	0.58	7,920	0.91	3,460	1.45								
216	3400	0.362	22,800	0.69	9,100	1.05	4,760	1.60								
229	3600	0.407	24,200	0.82	10,400	1.15	5,960	1.75								
242	3800	0.453	25,500	0.97	11,500	1.30	7,100	1.90	3,440	2.55						
255	4000	0.502	26,900	1.15	12,800	1.45	8,250	2.10	4,800	2.70						
268	4200	0.554	28,300	1.30	14,000	1.6	9,340	2.25	6,120	2.90	2,400	3.70				
280	4400	0.608	29,500	1.50	15,500	1.8	10,500	2.45	7,270	3.20	4,000	3.85				
293	4600	0.665	30,900	1.70			11,700	2.70	8,320	3.40	5,500	4.3				
306	4800	0.724	32,200	1.95			12,800	2.90	9,520	3.65	6,700	4.5				
319	5000	0.785	33,600	2.20			14,000	3.15	10,600	3.9	7,900	4.8				
334	5250	0.865	35,400	2.55			15,500	3.50	12,100	4.3	9,400	5.2	3,840	6.9		
350	5500	0.95	37,000	2.93			17,000	3.85	13,500	4.7	10,800	5.6	5,730	7.4		
366	5750	1.04	38,700	3.35			18,800	4.30	14,900	5.1	12,200	6.0	7,470	7.9		
382	6000	1.13	40,300	3.80			20,600	4.75	16,400	5.6	13,600	6.5	8,960	8.5	4,010	11.0
398	6250	1.23	42,100	4.30			22,300	5.3	18,000	6.1	15,000	7.0	10,500	9.0	5,900	11.5
414	6500	1.33	43,600	4.85			23,900	5.7	19,400	6.6	16,500	7.6	11,800	9.6	7,670	12.0
430	6750	1.43	45,400	5.4					20,800	7.1	17,900	8.1	13,300	10.5	9,280	12.5
446	7000	1.54	47,000	6					22,600	7.7	19,400	8.8	14,600	11	10,700	13

66" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
127	2200	0.152	17,900	0.225	2,460	0.59										
139	2400	0.181	19,600	0.295	4,070	0.68										
150	2600	0.212	21,100	0.375	5,530	0.77										
162	2800	0.246	22,800	0.47	6,890	0.87										
174	3000	0.283	24,500	0.61	8,220	0.98	2,430	1.65								
185	3200	0.322	26,100	0.70	9,590	1.10	4,200	1.75								
197	3400	0.363	27,600	0.84	11,000	1.25	5,760	1.90								
208	3600	0.407	29,300	1.00	12,500	1.40	7,220	2.10								
220	3800	0.453	31,000	1.15	13,000	1.55	8,600	2.30	4,170	3.05						
231	4000	0.502	32,600	1.35	15,500	1.75	10,000	2.50	5,820	3.30						
243	4200	0.551	34,300	1.60	17,000	1.95	11,300	2.70	7,410	3.55	2,910	4.5				
255	4400	0.608	35,700	1.80	18,800	2.2	12,700	2.95	8,810	3.85	4,850	4.7				
266	4600	0.665	37,500	2.05			14,200	3.25	10,100	4.15	6,680	5.2				
278	4800	0.724	39,000	2.35			15,600	3.50	11,600	4.40	8,130	5.5				
289	5000	0.785	40,700	2.70			16,900	3.80	12,900	4.75	9,650	5.8				
304	5250	0.865	42,800	3.10			18,800	4.20	14,600	5.2	11,400	6.3	4,640	8.4		
318	5500	0.95	44,800	3.55			20,600	4.65	16,400	5.7	13,100	6.8	6,960	9.0		
333	5750	1.04	46,800	4.05			22,700	5.2	18,100	6.2	14,800	7.3	9,050	9.6		
347	6000	1.13	48,800	4.6			24,900	5.7	19,900	6.8	16,400	7.8	10,900	10.0	4,860	13.0
361	6250	1.23	50,900	5.2			27,000	6.4	21,700	7.4	18,200	8.5	12,700	11.0	7,140	13.5
375	6500	1.33	52,800	5.9			28,900	7	23,500	8.0	20,000	9.2	14,300	11.5	9,200	14.5
390	6750	1.43	55,000	6.6					25,300	8.6	21,700	9.8	16,100	12.5	11,300	15
405	7000	1.54	56,900	7.3					27,400	9.4	23,500	10.5	17,700	13	13,000	16

72" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water 2.89 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
117	2200	0.152	21,300	0.270	2,920	0.70										
127	2400	0.181	23,300	0.350	4,850	0.81										
138	2600	0.212	25,200	0.445	6,580	0.91										
148	2800	0.246	27,100	0.56	8,190	1.05										
159	3000	0.283	29,200	0.73	9,770	1.15	2,890	1.95								
170	3200	0.322	31,100	0.83	11,400	1.30	4,980	2.10								
180	3400	0.363	32,900	1.00	13,100	1.50	6,850	2.25								
191	3600	0.407	34,800	1.20	14,900	1.65	8,580	2.50								
202	3800	0.453	36,800	1.40	16,600	1.85	10,200	2.7	4,960	3.65						
212	4000	0.502	38,800	1.60	18,500	2.1	11,900	3.0	6,900	3.9						
223	4200	0.554	40,800	1.90	20,200	2.3	13,450	3.2	8,800	4.2	3,460	5.4				
233	4400	0.608	42,500	2.15	22,300	2.6	15,100	3.5	10,500	4.6	5,750	5.6				
244	4600	0.665	44,600	2.45			16,800	3.9	12,000	4.9	7,930	6.2				
254	4800	0.724	46,500	2.80			18,500	4.2	13,800	5.3	9,660	6.5				
265	5000	0.785	48,400	3.20			20,100	4.5	15,300	5.6	11,500	6.9				
278	5250	0.865	51,000	3.65			22,300	5.0	17,400	6.2	13,500	7.5	5,520	10.0		
292	5500	0.95	53,200	4.25			24,400	5.5	19,500	6.8	15,600	8.0	8,200	10.5		
305	5750	1.04	55,800	4.85			27,000	6.2	21,500	7.3	17,600	8.7	10,800	11.5		
318	6000	1.13	58,200	5.5			29,600	6.8	23,600	8.0	19,500	9.3	12,900	12.0	5,780	15.5
331	6250	1.23	60,600	6.2			32,100	7.6	25,800	8.8	21,600	10.0	15,000	13.0	8,500	16
345	6500	1.33	62,800	7.0			34,400	8.3	27,900	9.5	23,700	11.0	16,900	14.0	11,000	17
358	6750	1.43	65,500	7.8					30,000	10	25,800	11.5	19,100	15.0	13,400	18
371	7000	1.54	67,800	8.7					32,600	11	27,900	12.5	21,000	15.5	15,500	19

78" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
108	2200	0.152	25,000	0 315	3,430	0 83										
117	2400	0.181	27,300	0 415	5,680	0 95										
127	2600	0.212	29,500	0 52	7,710	1 05										
137	2800	0.246	31,800	0.65	9,600	1 20										
147	3000	0.283	34,200	0 86	11,450	1 35	3,300	2 30								
156	3200	0 322	36,400	0.98	13,400	1.55	5,850	2 45								
166	3400	0.363	38,500	1.15	15,400	1 75	8,040	2 65								
176	3600	0.407	40,800	1.40	17,500	1 95	10,100	2 95								
186	3800	0.453	43,200	1 65	19,500	2 20	12,000	3 20	5,820	4.30						
195	4000	0 502	45,500	1.90	21,700	2 45	14,000	3 50	8,100	4 60						
205	4200	0.551	47,800	2 20	23,700	2 70	15,800	3.80	10,350	4 95	4,050	6.3				
215	4400	0 608	49,800	2 55	26,200	3 05	17,700	4 10	12,300	5 4	6,750	6 5				
225	4600	0 665	52,300	2 90			19,700	4 55	14,100	5 8	9,300	7 3				
234	4800	0 724	54,500	3.30			21,700	4 9	16,100	6.2	11,300	7.6				
244	5000	0 785	56,800	3 70			23,600	5.3	18,000	6 6	13,500	8 1				
257	5250	0.865	59,800	4 30			26,200	5.9	20,400	7 3	15,900	8 7	6,480	11 5		
269	5500	0 95	62,400	4 95			28,700	6 5	22,800	7 9	18,300	9 4	9,700	12 5		
281	5750	1 04	65,500	5 7			31,600	7.3	25,200	8 6	20,700	10 0	12,600	13 5		
293	6000	1.13	68,100	6 4			34,800	8 0	27,700	9.4	22,900	11 0	15,200	14 5	6,780	18.5
306	6250	1 23	71,000	7 3			37,600	8 9	30,400	10 5	25,400	12 0	17,700	15 0	9.980	19 0
318	6500	1.33	73,800	8 2			40,300	9.7	32,800	11	27,900	13 0	19,900	16 0	13,000	20.0
330	6750	1 43	76,700	9 2					35,200	12	30,300	13 5	22,400	17 5	15,700	21.5
313	7000	1.54	79,500	10					38,300	13	32,800	15	24,700	18 5	18,200	22

84" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
100	2200	0 152	28,900	0 365	3,970	0.96										
109	2400	0 181	31,600	0.48	6,580	1 10										
118	2600	0 212	34,200	0 60	8,910	1.25										
127	2800	0 246	36,900	0.76	11,100	1 40										
136	3000	0 283	39,700	0 99	13,300	1.60	3,930	2.70								
145	3200	0 322	42,200	1 15	15,500	1.80	6,780	2 85								
155	3400	0 363	44,700	1.35	17,800	2 05	9,300	3 10								
164	3600	0 407	47,400	1 60	20,300	2 25	11,700	3 40								
173	3800	0 453	50,100	1 90	22,500	2 55	13,900	3.70	6,740	5.0						
182	4000	0.502	52,700	2 20	25,100	2 85	16,200	4 05	9,400	5.3						
191	4200	0.554	55,400	2 55	27,500	3 15	18,300	4.40	12,000	5 7	4,700	7 3				
200	4400	0 608	57,800	2 95	30,300	3 55	20,500	4 75	14,300	6 2	7,820	7 6				
209	4600	0 665	60,700	3 35			22,900	5.3	16,300	6.7	10,800	8 4				
218	4800	0 724	63,200	3.8			25,200	5 7	18,700	7.2	13,100	8 8				
228	5000	0 785	65,900	4 3			27,300	6.1	20,800	7 7	15,600	9.4				
239	5250	0 865	69,400	5 0			30,300	6 7	23,700	8 4	18,400	10.0	7,510	13.5		
250	5500	0 95	72,300	5 8			33,300	7.5	26,500	9.2	21,200	11 0	11,300	14 5		
262	5750	1.04	75,800	6 6			36,600	8 4	29,200	10	23,900	12 0	14,600	15 5		
272	6000	1.13	78,900	7.5			40,300	9 3	32,100	11	26,600	12 5	17,600	16 5	7,800	21 5
284	6250	1 23	82,300	8 4			43,700	10 5	35,200	12	29,400	13 5	20,500	17.5	11,600	22.0
296	6500	1.33	85,500	9 5			46,800	11	38,000	13	32,300	15	23,000	19	15,000	23.5
307	6750	1 43	89,000	10 5					40,800	14	35,000	16	26,000	20	18,200	24.5
318	7000	1.54	92,000	12					44,300	15	38,000	17	28,600	21	21,000	25

96" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pres 1" Wate .578 ozs. p sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H
88	2200	0.152	37,900	0 48	5,180	1.25										
96	2400	0 181	41,300	0 62	8,600	1.45										
103	2600	0.212	44,700	0.79	11,700	1 60										
111	2800	0 246	48,200	0.99	14,500	1 85										
119	3000	0 283	51,900	1.30	17,400	2 05	5,130	3.50								
127	3200	0 322	55,200	1.50	20,300	2.35	8,860	3.75								
135	3400	0.363	58,400	1 75	23,300	2.65	12,200	4 05								
143	3600	0.407	62,000	2 10	26,500	2.95	15,300	4 45								
151	3800	0.453	65,500	2.50	29,500	3.3	18,200	4.8	8,820	6 5						
159	4000	0 502	69,000	2 90	32,800	3 7	21,100	5.3	12,300	7 0						
167	4200	0.554	72,500	3.35	35,900	4.1	23,900	5 7	15,700	7.5	6,140	9.5				
175	4400	0 608	75,500	3.85	39,600	4.6	26,800	6 2	18,600	8.1	10,200	9.9				
183	4600	0 665	79,200	4.4			29,900	6 9	21,300	8.6	14,100	11 0				
191	4800	0.724	82,500	5 0			32,900	7 4	24,400	9 3	17,200	11 5				
198	5000	0 785	86,000	5 6			35,700	8 0	27,200	10 0	20,400	12.0				
209	5250	0 865	90,700	6 5			39,700	8 8	30,900	11 0	24,100	13.0	9,830	17 5		
218	5500	0 95	94,800	7.5			43,500	9.8	34,600	12 0	27,700	14.5	14,700	19 0		
228	5750	1 04	99,100	8 6			48,000	11 0	38,200	13 0	31,300	15 5	19,100	20 5		
239	6000	1.13	103,000	9.8			52,700	12 0	41,900	14 0	34,700	16.5	23,000	21 5	10,300	
248	6250	1.23	108,000	11.0			57,000	13.5	45,900	15 5	38,400	18 0	26,700	23 0	15,100	
259	6500	1.33	112,000	12.5			61,100	14.5	49,700	17	42,200	19 5	30,100	24.5	19,600	
268	6750	1.43	117,000	14.0					53,400	18	45,800	20.5	34,000	26	23,800	
278	7000	1.54	121,000	15.5					57,900	20	49,700	22 5	37,400	28	27,500	

108" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pres 1" Wate .578 ozs. p sq. inch	
78	2200	0.152	47,800	0 61	6,560	1.60										
85	2400	0.181	52,200	0.79	10,900	1.80										
92	2600	0.212	56,500	1.00	14,800	2.05										
99	2800	0.246	60,800	1.25	18,400	2.30										
106	3000	0.283	65,600	1.65	21,900	2.60	6,480	4 40								
113	3200	0.322	69,800	1.85	25,600	2.95	11,200	4.75								
120	3400	0.363	73,800	2.25	29,400	3.35	15,400	5.1								
128	3600	0.407	78,400	2 65	33,500	3.75	19,300	5.6								
135	3800	0.453	82,800	3.15	37,200	4 2	22,900	6.1	11,100	8.2						
142	4000	0.502	87,100	3 65	41,500	4 7	26,700	6.7	15,500	8.8						
149	4200	0.554	91,600	4.20	45,400	5.2	30,200	7.2	19,800	9.5	7,760	12 0				
156	4400	0.608	95,400	4 85	50,100	5 8	33,800	7 9	23,600	10 0	12,900	12.5				
163	4600	0.665	100,000	5.5			37,800	8.7	26,900	11.0	17,800	14 0				
170	4800	0.724	105,000	6.3			41,600	9 4	30,800	12.0	21,700	14.5				
177	5000	0.785	109,000	7 1			45 200	10.0	34,400	12.5	25,800	15.5				
186	5250	0.865	115,000	8.2			50,200	11.0	39,000	14.0	30,400	16.5	12,400	22.5		
195	5500	0.95	120,000	9.5			54,900	12.5	43,700	15.0	35,000	18 0	18,600	24		
204	5750	1.04	125,000	11.0			60,600	14.0	48,300	16.5	39,500	19.5	24,200	26		
213	6000	1.13	131,000	12.5			66,500	15.5	53,000	18	43,900	21.0	29,000	27	13,000	
222	6250	1 23	136,000	14.0			72,000	17 0	58,100	20	48,400	22.5	33,800	29	19,100	
230	6500	1 33	141,000	15 5			77,300	18.5	62,800	21	53,300	24.5	38,000	31	24,800	
239	6750	1 43	147,000	17 5					67,500	23	58,000	26 0	42,900	33	30,100	
248	7000	1.54	152,000	19.5					73,200	25	62,800	28	47,300	35	34,800	

120" Sturtevant-Davidson Propeller Fan

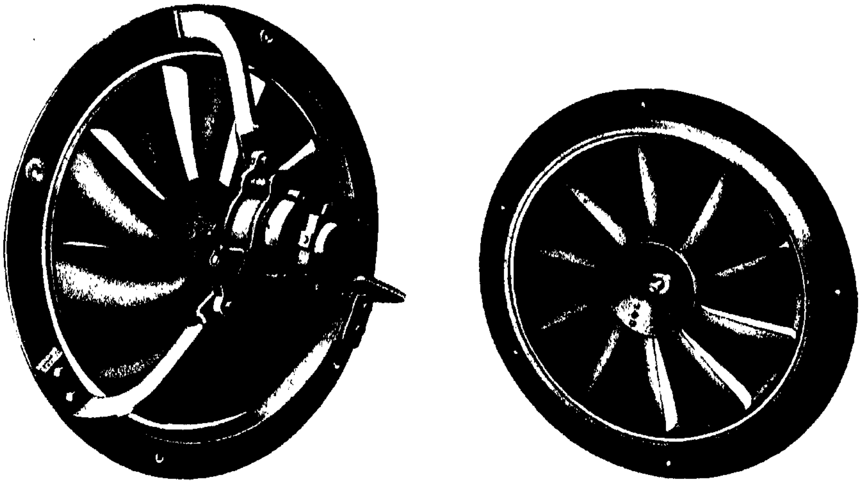
When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances. Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .0722 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
70	2200	0.152	59,100	0.75	8,090	1 95										
76	2400	0 181	64,500	0.97	9,200	2 25										
83	2600	0.212	69,700	1.25	18,200	2.50										
89	2800	0.246	75,200	1.55	22,700	2 90										
96	3000	0 283	81,000	2.00	27,100	3.20	8,020	5.5								
102	3200	0.322	86,000	2 30	31,600	3.65	13,800	5.8								
108	3400	0 362	91,100	2 75	36,400	4.15	19,000	6.3								
115	3600	0 407	96,500	3.30	41,300	4.61	23,800	6.0								
121	3800	0 453	102,000	3.85	45,900	5 2	28,300	7 5	13,800	10.0						
127	4000	0 502	108,000	4 50	51,200	5 8	33,000	8.3	19,200	11.0						
134	4200	0.554	113,000	5.2	56,100	6 4	37,300	8.9	24,400	11.5	9,580	15.0				
140	4400	0.608	118,000	6.0	61,800	7 2	41,800	9 7	29,100	12 5	16,000	15.5				
146	4600	0.665	124,000	6 8			46,600	11.0	33,200	13 5	22,000	17.0				
153	4800	0 724	129,000	7 8			51,200	11.5	38,000	14.5	26,800	18.0				
159	5000	0 785	135,000	8.8			55,700	12.5	42,400	15.5	31,800	19 0				
167	5250	0 867	142,000	10 0			61,800	14.0	48,200	17 0	37,600	21 0	15,300	28		
175	5500	0 95	148,000	11.5			67,800	15.5	54,000	18.5	43,200	22.5	22,900	30		
183	5750	1.04	155,000	13 5			74,800	17	59,600	20 0	48,700	24	29,900	32		
191	6000	1.13	161,000	15 0			82,100	19	65,500	22.0	54,200	26	35,800	34	16,000	44
199	6250	1.23	168,000	17 0			89,000	21	71,700	24.5	59,800	28	41,700	36	23,600	45
207	6500	1.33	174,000	19 5			95,500	23	77,600	26	65,800	30	47,000	38	30,700	48
215	6750	1.43	182,000	21 5					83,300	28	71,500	32	53,000	41	37,100	50
223	7000	1.54	188,000	24					90,300	31	77,500	35	58,300	43	42,900	52

STURTEVANT TRACTRIX FANS

Dimensions, Capacities, Horse Powers

Sturtevant Tractrix Fans



Sturtevant Tractrix Fans

STURTEVANT TRACTRIX FAN

SPECIFICATIONS

There shall be furnished a Sturtevant No. ....Tractrix Fan, the total length in the direction of the shaft being...........inches, and the total overall diameter...........inches.

The fan shall have a capacity of...........cubic feet per minute and shall operate at approximately..........R.P.M. requiring approximately ...........B.H.P.

The electric motor shall be built to operate on.............current,............volts,...........cycles, ...phase.

Tractrix Fan

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

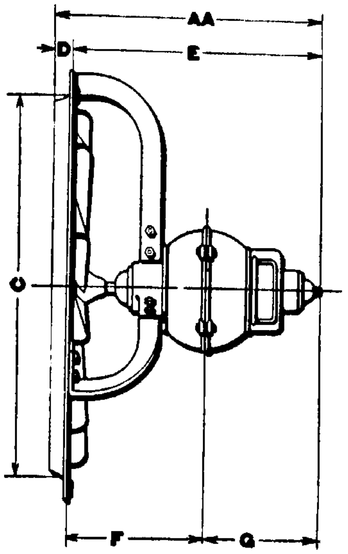
Tractrix Fan

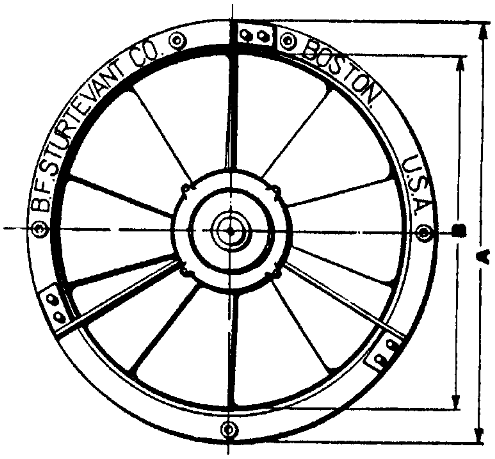
APPROXIMATE WEIGHTS

Size	Direct Current	Alternating Current	
		Single Phase	Poly-Phase
1	65	55	55
2	70	60	60
3	75	65	65
4	100	90	90
5	160	130	130
6	200	205	205
7	360	310	290
8	450	420	390
9	650	525	460
10	700	690	620
11	900	885	850

Sturtevant Tractrix Fan

Sturtevant Direct Current Motor

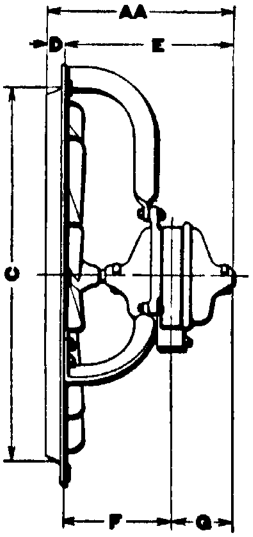


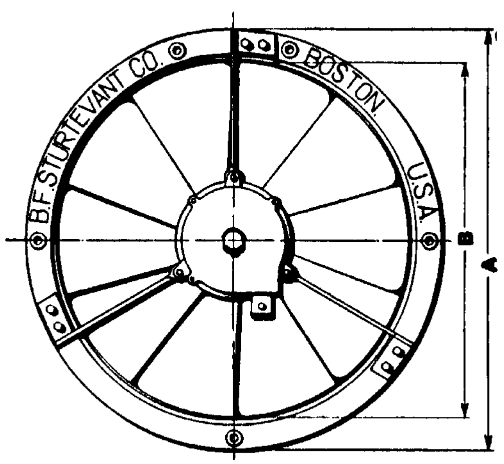


Fan Size	A	B	C	D	E	F	G	AA	Shaft Diameter	Anchor Bolts
1	16½	11	12¼	1	8 9/16	4 15/16	3⅜	9 9/16	¾	⅜
2	18½	12¾	14¼	1	8 11/16	5 1/16	3⅝	9 11/16	¾	⅜
3	20½	14½	16	1⅛	8 13/16	5 3/16	3¾	10 1/16	¾	⅜
4	23	16¼	18	1⅛	9 5/16	5 9/16	3¾	10 7/16	¾	⅜
5	25¾	19⅛	21	1¼	9¾	5¾	4	11	¾	½
6	28¼	21⅜	23½	1⅜	16 7/16	9⅛	7 5/16	17 13/16	¾	½
7	34½	27¼	29½	1½	19	10 7/16	8 9/16	20½	15/16	½
8	40¼	32½	34¾	1⅝	19½	10 13/16	8 9/16	21⅛	15/16	½
9	45¾	37¾	40¼	1¾	23⅞	13⅞	10	25⅛	1	½
10	52	43¼	45¾	1⅞	28⅝	15⅜	13¼	30½	1⅛	½
11	57½	48½	51¼	2	29⅞	16⅜	13½	31⅞	1⅜	½

Sturtevant Tractrix Fan

Alternating Current Motor





(Single Phase)

Fan Size	A	B	C	D	E	F	G	A A	Shaft Diameter	Anchor Bolts
1	16½	11	12¼	1	8¼	4½	3¼	9¼	⅜	⅜
2	18½	12¾	14¼	1	8⅜	4⅝	3¼	9⅜	⅜	⅜
3	20½	14½	16	1⅛	8⅜	4⅞	3¾	9⅞	⅜	⅜
4	23	16¼	18	1⅛	8 15/16	5¼	3 11/16	10 1/16	½	½
5	25¾	19⅛	21	1¼	11½	6⅝	4⅞	12¾	½	½
6	28¼	21⅝	23½	1⅜	16½	7⅞	8⅞	18⅛	¾	½
7	34½	27¼	29¼	1⅜	19 7/16	9 9/16	9⅞	20 13/16	15/16	⅝
8	40¼	32½	34¾	1⅝	20 11/16	10 7/16	10¼	22 5/16	15/16	⅝
9	45⅜	37¾	40¼	1¾	22¾	11 9/16	11 3/16	24½	1	⅝
10	52	43¼	45¾	1⅞	27⅝	14¼	13¾	29½	1⅛	¾
11	57¼	48¼	51¼	2	28⅞	15 3/16	13 5/16	30⅞	1⅜	¾

(2 and 3 Phase)

Fan Size	A	B	C	D	E	F	G	A A	Shaft Diameter	Anchor Bolts
1	16½	11	12¼	1	8 3/16	4 9/16	3⅜	9 3/16	⅜	⅜
2	18½	12¾	14¼	1	8 13/16	4⅝	3 11/16	9 13/16	⅜	⅜
3	20½	14½	16	1⅛	8½	4 13/16	3 11/16	9⅞	⅜	⅜
4	23	16¼	18	1⅛	9	5 3/16	3 13/16	10⅛	½	½
5	25¾	19⅛	21	1¼	10⅞	6⅝	4¼	12⅛	½	½
6	28¼	21⅝	23½	1⅜	12 3/16	7¼	4 13/16	13 9/16	¾	½
7	34½	27¼	29½	1⅜	15⅝	9 1/16	6 1/16	16⅝	15/16	⅝
8	40¼	32½	34¾	1⅝	15⅝	9 9/16	6 1/16	17¼	15/16	⅝
9	45⅜	37¾	40¼	1¾	19⅜	11 13/16	7 5/16	21¼	1	⅝
10	52	43¼	45¾	1⅞	21¼	13 13/16	8 1/16	23¼	1⅛	¾
11	57½	48½	51¼	2	23⅝	14¼	8⅞	25⅝	1⅜	¾

No. 1 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
780	2200	0 206	323	0.0030												
850	2400	0.245	352	0.0035												
922	2600	0 287	382	0.0045	85	0.010										
093	2800	0 333	410	0 0060	132	0 011										
1065	3000	0 382	440	0.0070	180	0 012										
1135	3200	0 435	470	0 0085	222	0 013										
1205	3400	0.491	499	0 010	262	0.014										
1280	3600	0.551	528	0 012	304	0 015	102	0 028								
1350	3800	0.614	558	0 014	345	0 017	151	0 029								
1420	4000	0.680	586	0 017	383	0 019	197	0 031								
1490	4200	0.750	616	0 020	426	0.021	244	0 032								
1560	4400	0.822	646	0 022	475	0 024	288	0.034	125	0 052						
1630	4600	0 809	675	0.026	513	0 027	328	0.036	168	0.054						
1700	4800	0.980	706	0.029	550	0.030	369	0 038	221	0.056						
1770	5000	1.06	735	0.033	589	0.033	410	0.041	265	0 058	120	0 079				
1860	5250	1.17	772	0 038	636	0.038	463	0.046	317	0 060	182	0 081				
1950	5500	1.29	807	0 044	683	0 044	514	0.050	374	0 063	243	0.085				
2040	5750	1.40	844	0 050	724	0 050	567	0 055	428	0 067	301	0.089				
2130	6000	1.53	881	0 057	768	0.058	621	0 062	480	0 073	359	0 093				
2220	6250	1.66	917	0.064	808	0.064	673	0 068	527	0.079	410	0 090	182	0 145		
2300	6500	1.79	955	0 073			724	0.076	578	0 085	463	0 100	237	0 150		
2400	6750	1.94	991	0 081			775	0 084	625	0 092	518	0.105	298	0.155		
2480	7000	2 08	1030	0.090			815	0 093	673	0 100	568	0.115	357	0 160	150	0.22

No. 2 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
670	2200	0 206	437	0 0040												
732	2400	0 245	476	0 0050												
792	2600	0.287	515	0 0065	115	0.013										
854	2800	0.333	554	0.0080	179	5 015										
915	3000	0.382	594	0 0095	242	0.016										
975	3200	0.435	633	0 012	300	0 017										
1040	3400	0.491	673	0.014	353	0 018										
1100	3600	0 551	713	0.017	410	0 020	138	0.038								
1160	3800	0.614	752	0.020	465	0 023	204	0 040								
1220	4000	0.680	793	0 023	517	0 025	266	0.042								
1280	4200	0 750	831	0 026	575	0.029	329	0.044								
1340	4400	0.822	872	0 030	640	0 032	380	0 046	168	0 070						
1400	4600	0.899	910	0 035	692	0.036	443	0 048	227	0.072						
1460	4800	0 980	952	0.039	743	0 040	498	0.051	290	0 075						
1530	5000	1.06	990	0.045	795	0.045	553	0 055	357	0.078	161	0.105				
1600	5250	1.17	1040	0.051	857	0 051	624	0.062	428	0 081	246	0.110				
1680	5500	1.29	1090	0.059	922	0.060	695	0.067	504	0.085	327	0 115				
1750	5750	1.40	1140	0.068	978	0.068	765	0.074	577	0.091	407	0.120				
1830	6000	1 53	1190	0.077	1030	5 078	838	0 083	648	0.099	485	0.125				
1910	6250	1 66	1240	0 086	1090	0.087	910	0.092	712	0 105	553	0.130	245	0 200		
1980	6500	1.79	1290	0 098			978	0 100	780	0.115	625	0.140	320	0 205		
2060	6750	1.94	1340	0 11			1050	0.115	845	0 125	609	0.145	402	0.210		
2140	7000	2 08	1390	0.12			1100	0.125	910	0.135	768	0.155	482	0.215	202	0.30

No. 3 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
590	2200	0.206	570	0.0050												
644	2400	0.245	621	0.0065												
697	2600	0.287	673	0.008	150	0.018										
750	2800	0.333	724	0.010	233	0.019										
805	3000	0.382	775	0.013	317	0.020										
857	3200	0.435	827	0.015	391	0.022										
911	3400	0.491	879	0.018	461	0.024										
965	3600	0.551	930	0.022	534	0.027	180	0.050								
1020	3800	0.614	982	0.025	608	0.030	265	0.052								
1072	4000	0.680	1,040	0.030	675	0.033	346	0.055								
1125	4200	0.750	1,090	0.034	750	0.037	430	0.057								
1180	4400	0.822	1,140	0.040	835	0.042	508	0.060	220	0.092						
1230	4600	0.899	1,190	0.045	903	0.047	577	0.063	297	0.094						
1288	4800	0.980	1,240	0.051	970	0.052	650	0.067	390	0.098						
1340	5000	1.06	1,290	0.058	1,040	0.059	722	0.072	467	0.100	211	0.140				
1410	5250	1.17	1,360	0.067	1,120	0.067	815	0.081	558	0.105	321	0.145				
1470	5500	1.29	1,420	0.077	1,200	0.078	907	0.088	650	0.110	428	0.150				
1540	5750	1.40	1,490	0.088	1,280	0.088	1,000	0.097	752	0.120	532	0.155				
1610	6000	1.53	1,550	0.100	1,350	0.105	1,090	0.110	846	0.130	633	0.165				
1675	6250	1.66	1,620	0.110	1,420	0.115	1,190	0.120	929	0.140	722	0.170	319	0.200		
1742	6500	1.79	1,680	0.130			1,280	0.135	1,020	0.150	817	0.180	419	0.265		
1810	6750	1.94	1,750	0.145			1,370	0.150	1,100	0.160	913	0.190	523	0.275		
1875	7000	2.08	1,810	0.160			1,440	0.165	1,190	0.175	1,000	0.200	630	0.285	264	0.39

No. 4 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in Inches	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.	Volume C.F.M.	H.P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
525	2200	0.206	718	0.006												
573	2400	0.245	784	0.008												
620	2600	0.287	849	0.010	189	0.022										
669	2800	0.333	913	0.013	294	0.024										
715	3000	0.382	978	0.016	399	0.026										
763	3200	0.435	1,040	0.019	493	0.027										
811	3400	0.491	1,110	0.023	582	0.030										
860	3600	0.551	1,180	0.027	675	0.034	227	0.063								
906	3800	0.614	1,240	0.032	766	0.038	335	0.065								
955	4000	0.680	1,310	0.038	852	0.042	437	0.069								
1001	4200	0.750	1,370	0.043	947	0.047	542	0.072								
1050	4400	0.822	1,440	0.050	1,050	0.053	641	0.075	278	0.115						
1099	4600	0.899	1,500	0.057	1,140	0.059	729	0.079	374	0.120						
1145	4800	0.980	1,570	0.065	1,220	0.066	810	0.085	491	0.125						
1192	5000	1.06	1,630	0.073	1,310	0.074	910	0.091	588	0.130	266	0.175				
1251	5250	1.17	1,720	0.085	1,410	0.085	1,030	0.100	705	0.135	404	0.180				
1311	5500	1.29	1,800	0.098	1,520	0.098	1,140	0.110	831	0.140	539	0.190				
1371	5750	1.40	1,880	0.110	1,610	0.110	1,260	0.120	950	0.150	670	0.195				
1431	6000	1.53	1,960	0.125	1,710	0.130	1,380	0.135	1,070	0.160	798	0.205				
1490	6250	1.66	2,040	0.14	1,800	0.145	1,500	0.150	1,170	0.175	910	0.215	403	0.330		
1550	6500	1.79	2,120	0.16			1,610	0.170	1,290	0.190	1,030	0.225	528	0.335		
1610	6750	1.94	2,200	0.18			1,720	0.185	1,390	0.205	1,150	0.240	661	0.345		
1670	7000	2.08	2,290	0.2			1,810	0.205	1,500	0.220	1,260	0.255	795	0.360	333	0.49

No. 5 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾'' Water .434 ozs. per sq. inch		Static Pressure 1'' Water .578 ozs. per sq. inch	
447	2200	0.206	985	0 0085												
488	2400	0.245	1,080	0.011												
529	2600	0.287	1,170	0.014	260	0 030										
569	2800	0.333	1,250	0.018	403	0.033										
610	3000	0 382	1,340	0.022	548	0 035										
650	3200	0 435	1,430	0.026	675	0 037										
692	3400	0.491	1,520	0 032	797	0 041										
732	3600	0 551	1,610	0 037	925	0.046	311	0.086								
772	3800	0.614	1,700	0.044	1,050	0 052	460	0.090								
813	4000	0.680	1,790	0.051	1,170	0 057	600	0.095								
854	4200	0.750	1,880	0 060	1,300	0 065	743	0 099								
895	4400	0 822	1,970	0.068	1,450	0.073	878	0 105	380	0 160						
935	4600	0.899	2,060	0 078	1,560	0.081	1,000	0.110	513	0.165						
975	4800	0.980	2,150	0.089	1,680	0.091	1,120	0.115	673	0.170						
1015	5000	1.06	2,240	0 100	1,800	0.100	1,250	0.125	807	0.175	365	0.240				
1068	5250	1 17	2,350	0 115	1,940	0.115	1,410	0 140	965	0 185	555	0.245				
1119	5500	1.29	2,460	0 135	2,080	0.135	1,570	0 150	1,140	0.190	740	0.260				
1170	5750	1.40	2,580	0.155	2,210	0 155	1,730	0.170	1,300	0 205	920	0 270				
1220	6000	1.53	2,680	0.175	2,310	0 175	1,890	0.190	1,400	0 225	1,100	0 285				
1270	6250	1.66	2,790	0 195	2,460	0.195	2,060	0.210	1,610	0 240	1,250	0.205	553	0.450		
1320	6500	1.79	2,910	0.220			2,210	0 230	1,760	0.260	1,410	0 310	724	0.460		
1370	6750	1.94	3,020	0 250			2,360	0.255	1,900	0 280	1,580	0.325	905	0 475		
1422	7000	2.08	3,140	0.275			2,490	0 285	2,050	0.305	1,730	0.35	1,090	0.49	457	0.67

No. 6 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½'' Water .289 ozs. per sq. inch		Static Pressure ¾'' Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
395	2200	0.206	1,260	0 011												
431	2400	0 245	1,380	0.014												
467	2600	0 287	1,490	0.018	332	0 039										
503	2800	0.333	1,600	0 023	517	0 042										
539	3000	0.382	1,720	0 028	701	0 045										
574	3200	0 435	1,830	0.034	866	0 048										
610	3400	0.491	1,950	0 040	1,020	0 053										
646	3600	0.551	2,060	0.048	1,190	0 059	399	0.110								
682	3800	0.614	2,180	0.056	1,350	0 066	589	0 115								
718	4000	0 680	2,290	0 066	1,500	0.074	767	0 120								
754	4200	0 750	2,410	0 076	1,670	0.083	952	0.125								
790	4400	0.822	2,520	0 087	1,850	0 094	1,120	0 130	487	0 205						
826	4600	0.899	2,640	0.100	2,000	0.105	1,280	0 140	657	0 210						
862	4800	0.980	2,760	0 115	2,150	0.115	1,440	0 150	864	0 220						
898	5000	1 06	2,870	0.130	2,300	0.130	1,600	0 160	1,030	0 225	468	0 310				
942	5250	1.17	3,010	0 150	2,480	0.150	1,810	0.180	1,240	0 235	711	0.315				
988	5500	1.29	3,160	0.170	2,670	0 170	2,010	0 195	1,460	0.245	947	0 330				
1032	5750	1 40	3,300	0.195	2,830	0 195	2,220	0.215	1,670	0 260	1,180	0 345				
1078	6000	1.53	3,440	0.220	3,000	0.225	2,420	0.240	1,880	0.285	1,400	0.365				
1121	6250	1.66	3,580	0.250	3,160	0.250	2,640	0 265	2,060	0 305	1,600	0.375	709	0.58		
1168	6500	1.79	3,730	0.285			2,830	0 295	2,260	0 33	1,810	0.400	927	0.59		
1212	6750	1.94	3,870	0.320			3,030	0.325	2,440	0 36	2,020	0.415	1,160	0.61		
1258	7000	2.08	4,020	0.355			3,190	0.365	2,640	0 39	2,220	0 450	1,400	0.63	585	0.86

No. 7 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1'' Water .578 ozs. per sq. inch	
314	2200	0.206	2,000	0.017												
343	2400	0.245	2,180	0,023												
371	2600	0.287	2,370	0.029	526	0.062										
400	2800	0.333	2,540	0.036	820	0.067										
428	3000	0.382	2,730	0.044	1,110	0.072										
457	3200	0.435	2,910	0.053	1,370	0.076										
485	3400	0.491	3,000	0.064	1,620	0.083										
514	3600	0.551	3,270	0.076	1,880	0.094	632	0.175								
542	3800	0.614	3,450	0.989	2,140	0.105	932	0.180								
571	4000	0.680	3,640	0.105	2,370	0.115	1,220	0.190								
599	4200	0.750	3,820	0.120	2,640	0.130	1,510	0.200								
628	4400	0.822	4,000	0.140	2,940	0.150	1,780	0.210	772	0.320						
656	4600	0.899	4,180	0.160	3,170	0.165	2,030	0.220	1,040	0.330						
685	4800	0.980	4,370	0.180	3,410	0.185	2,280	0.235	1,370	0.345						
714	5000	1.06	4,550	0.205	3,650	0.205	2,540	0.255	1,640	0.355	740	0.49				
749	5250	1.17	4,780	0.235	3,930	0.235	2,860	0.285	1,960	0.370	1,130	0.50				
785	5500	1.29	5,000	0.270	4,230	0.275	3,190	0.31	2,320	0.390	1,500	0.53				
820	5750	1.40	5,230	0.310	4,490	0.31	3,510	0.34	2,640	0.415	1,870	0.55				
856	6000	1.53	5,450	0.350	4,750	0.36	3,840	0.38	2,970	0.450	2,220	0.58				
881	6250	1.66	5,680	0.395	5,000	0.40	4,180	0.42	3,260	0.485	2,540	0.60	1,120	0.91		
928	6500	1.79	5,910	0.45			4,490	0.47	3,580	0.52	2,860	0.63	1,470	0.94		
964	6750	1.94	6,140	0.50			4,800	0.52	3,880	0.57	3,200	0.66	1,840	0.96		
1000	7000	2.08	6,370	0.56			5,050	0.58	4,170	0.62	3,520	0.71	2,210	1	928	1.35

No. 8 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½'' Water .289 ozs. per sq. inch		Static Pressure ¾'' Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
262	2200	0.206	2,800	0.025												
286	2400	0.242	3,130	0.032												
310	2600	0.287	3,380	0.041	754	0.088										
334	2800	0.333	3,640	0.051	1,170	0.095										
358	3000	0.382	3,900	0.063	1,590	0.105										
382	3200	0.435	4,160	0.077	1,970	0.110										
405	3400	0.491	4,420	0.092	2,320	0.120										
429	3600	0.551	4,680	0.110	2,690	0.135	905	0.250								
453	3800	0.614	4,940	0.130	3,060	0.150	1,340	0.260								
477	4000	0.680	5,200	0.150	3,400	0.165	1,740	0.275								
501	4200	0.750	5,460	0.175	3,780	0.190	2,160	0.290								
525	4400	0.822	5,720	0.200	4,200	0.210	2,550	0.300	1,110	0.460						
548	4600	0.899	5,990	0.230	4,540	0.235	2,900	0.315	1,490	0.475						
573	4800	0.980	6,250	0.260	4,880	0.265	3,270	0.335	1,960	0.495						
596	5000	1.06	6,500	0.290	5,220	0.295	3,630	0.365	2,340	0.51	1,060	0.70				
626	5250	1.17	6,840	0.340	5,620	0.340	4,100	0.405	2,810	0.53	1,610	0.72				
656	5500	1.29	7,150	0.390	6,050	0.390	4,550	0.445	3,310	0.56	2,150	0.75				
686	5750	1.40	7,480	0.445	6,410	0.445	5,020	0.485	3,790	0.59	2,670	0.78				
715	6000	1.53	7,800	0.50	6,800	0.51	5,500	0.55	4,250	0.65	3,180	0.82				
745	6250	1.66	8,120	0.56	7,150	0.57	5,980	0.60	4,670	0.70	3,630	0.85	1,610	1.30		
775	6500	1.79	8,450	0.64			6,420	0.67	5,120	0.75	4,110	0.90	2,100	1.35		
805	6750	1.94	8,790	0.72			6,860	0.74	5,540	0.82	4,590	0.95	2,630	1.40		
835	7000	2.08	9,110	0.80			7,230	0.83	5,980	0.88	5,040	1	3,170	1.45	1,330	1.95

No. 9 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
225	2200	0.206	3,890	0.034												
246	2400	0 245	4,250	0.044												
266	2600	0 287	4,600	0.056	1,020	0.120										
286	2800	0 333	4,950	0 070	1,590	0.130										
307	3000	0 382	5,300	0.086	2,160	0 140										
327	3200	0.435	5,650	0.105	2,670	0.145										
348	3400	0 491	6,000	0.125	3,150	0.160										
368	3600	0 551	6,350	0.150	3,660	0.180	1,230	0.340								
380	3800	0.614	8,720	0.175	4,150	0 205	1,820	0.355								
410	4000	0.680	7,060	0 205	4,610	0.220	2,370	0.375								
430	4200	0 750	7,420	0 235	5,130	0.255	2,940	0 390								
450	4400	0 822	7,780	0 270	5,710	0 029	3,470	0.405	1,500	0.63						
471	4600	0 899	8,130	0.310	6,170	0 32	3,940	0.425	2,020	0.65						
491	4800	0.980	8,500	0.350	6,620	0 36	4,440	0.460	2,660	0.67						
512	5000	1.06	8,850	0.395	7,090	0.40	4,930	0.495	3,180	0.69	1,440	0.95				
537	5250	1.17	9,300	0 46	7,650	0.46	5,560	0.55	3,820	0.73	2,170	0 98				
563	5500	1.29	9,720	0.53	8,230	0.53	6,200	0.60	4,500	0.76	2,920	1.00				
589	5750	1.40	10,200	0 60	8,730	0 60	6,830	0 66	5,140	0.81	3,620	1.05				
614	6000	1.53	10,600	0.69	9,240	0.70	7,470	0 74	5,780	0.88	4,320	1.10				
640	6250	1.66	11,000	0.77	9,730	0.78	8,110	0.82	6,350	0.95	4,930	1.15	2,180	1.75		
665	6500	1.79	11,500	0.87			8,730	0.91	6,960	1.0	5,580	1.25	2,860	1.80		
691	6750	1.94	11,900	0.98			9,330	1.0	7,530	1.1	6,240	1.3	3,580	1.85		
716	7000	2.08	12,400	1.1			9,830	1.1	8,120	1.2	6,850	1.4	4,300	1.95	1,800	2.65

No. 10 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛" Water .072 ozs. per sq. inch		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch	
196	2200	0 206	5,120	0.044												
214	2400	0 245	5,580	0 058												
232	2600	0.287	6 050	0.073	1,350	0.160										
250	2800	0.333	6,500	0.092	2,090	0 170										
268	3000	0.382	6,970	0 115	2,840	0 185										
286	3200	0.435	7,430	0 135	3,510	0 195										
303	3400	0.491	7,900	0.165	4,130	0 215										
321	3600	0.551	8,360	0.195	4,800	0 240	1,620	0.450								
339.	3800	0 614	8,830	0.230	5,460	0.270	2,390	0.465								
357	4000	0.680	9,300	0.265	6,060	0.300	3,120	0.49								
375	4200	0.750	9,760	0.310	6,740	0.335	3,860	0.51								
393	4400	0.822	10,200	0 355	7,510	0.380	4,560	0.54	1,980	0.83						
411	4600	0.899	10,700	0.405	8,110	0.425	5,190	0.56	2,660	0.85						
429	4800	0 980	11,200	0.46	8,720	0 47	5,830	0.60	3,500	0.89						
446	5000	1.06	11,600	0.52	9,320	0.53	6,480	0.65	4,190	0.91	1,900	1.25				
469	5250	1.17	12,200	0.60	10,100	0 60	7,310	0.73	5,020	0.95	2,880	1.30				
491	5500	1.29	12,800	0.70	10,800	0.70	8,150	0 79	5,920	1.00	3,840	1.35				
513	5750	1.40	13,400	0.80	11,500	0.80	8,970	0.87	6,760	1.05	4,770	1.40				
536	6000	1 53	13,900	0.90	12,200	0.92	9,820	0.98	7,600	1.15	5,680	1.45				
558	6250	1.66	14,500	1.00	12,800	1	10,700	1.10	8,350	1.25	6,480	1.5	2,870	2.35		
580	6500	1.79	15,100	1.15			11,500	1.20	9,170	1.35	7,330	1.6	3,760	2.40		
603	6750	1.94	15,700	1.30			12,300	1.35	9,900	1.45	8,200	1.7	4,700	2.45		
625	7000	2 08	16,300	1.45			12,900	1.5	10,700	1.55	9,000	1.8	5,660	2.55	2,370	3.5

No. 11 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continnously Maintained Resistances.

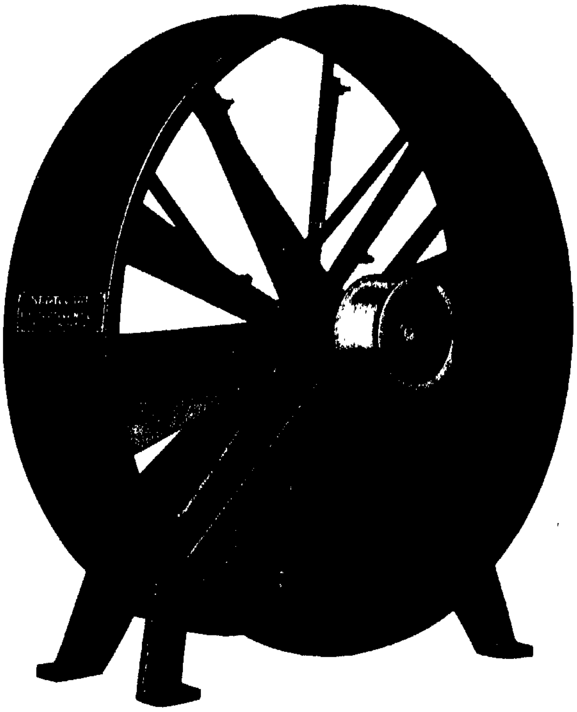
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ⅛'' Water .072 ozs. per sq. inch		Static Pressure ¼'' Water .145 ozs. per sq. inch		Static Pressure ⅜'' Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾'' Water .434 ozs. per sq. inch		Static Pressure 1'' Water .578 ozs. per sq. inch	
175	2200	0.206	6,460	0 056												
191	2400	0 245	7,050	0.073												
207	2600	0.287	7,630	0 093	1,700	0.200										
222	2800	0 333	8,210	0.115	2,640	0.215										
239	3000	0 382	8,800	0.140	3,590	0 230										
254	3200	0 435	9,380	0 170	4,430	0.245										
270	3400	0 491	9,980	0.205	5,230	0 270										
286	3600	0.551	10,600	0 245	6,080	0.290	2,040	0.57								
302	3800	0.614	11,100	0.290	6,890	0.340	3,010	0.59								
318	4000	0.680	11,700	0.335	7,660	0 380	3,930	0.62								
334	4200	0.750	12,300	0 390	8,520	0 425	4,870	0.65								
350	4400	0 822	12,900	0.45	9,500	0.48	5,760	0 68	2,490	1 05						
366	4600	0.899	13,500	0.51	10,300	0 53	6,550	0.71	3,350	1.05						
382	4800	0.980	14,100	0.58	11,000	0.59	7,370	0.76	4,420	1.10						
308	5000	1.06	11,700	0 66	11,800	0.67	8,200	0.82	5,300	1.15	2,390	1 55				
418	5250	1 17	15,400	0.76	12,700	0.77	9,240	0 92	6,330	1.20	3,650	1.60				
438	5500	1.29	16,200	0 88	13,700	0.88	10,300	1.00	7,470	1.25	4,850	1.70				
457	5750	1.40	16,900	1.00	14,500	1.00	11,300	1.10	8,540	1.35	6,020	1.75				
477	6000	1.53	17,600	1.15	15,400	1 15	12,400	1.25	9,600	1 45	7,180	1.85				
497	6250	1 66	18,300	1 25	16,200	1.3	13,500	1 35	10,500	1.55	8,190	1 95	3,630	2.95		
516	6500	1.79	19,100	1.45			14,500	1.50	11,600	1.70	9,280	2 05	4,750	3.0		
536	6750	1 94	19,800	1 6			15,500	1.65	12,500	1 85	10,400	2 15	5,940	3.1		
556	7000	2 08	20,600	1 8			16,300	1.85	13,500	2	11,400	2 3	7,150	3.2	3,000	4 4

STURTEVANT DISC FANS

Design 1

Dimensions, Capacities, Horse Powers

Sturtevant Disc Fan—Design 1



Sturtevant Disc Fan

DISC FAN—DESIGN 1

SPECIFICATIONS

There shall be furnished a Sturtevant...... inch Design 1 Disc Fan, the wheel having ....blades firmly fixed to radial steel arms cast into the hub. The casing shall be of No.........gauge sheet steel suitably supported by angle irons placed around both the inlet and delivery sides of the casing. Removable feet shall be bolted to the casing.

The fan shall have a capacity of........cubic feet per minute and shall operate at approximately........R. P. M., requiring approximately........B. H. P.

Sturtevant Disc Fan—Design 1

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

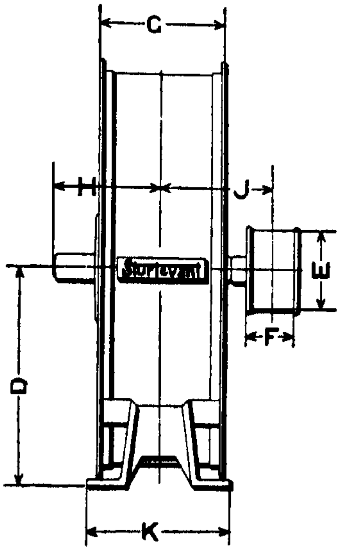
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

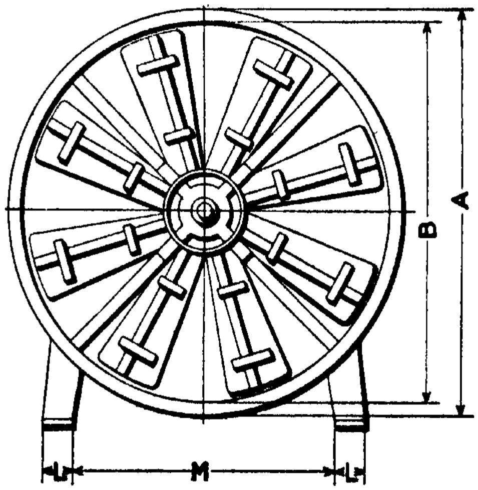
Disc Fan — Design 1

APPROXIMATE WEIGHTS

Size	Weight Not Packed
18	65
24	100
30	166
36	190
42	290
48	350
54	425
60	535
66	665
72	875
78	1000
84	1025
96	1175
108	1470
120	1800

Disc Fan — Design 1





Fan Size	A	B	D	E	F	G	H	J	K	L	M
18	19¼	18⅛	11	4	2½	10¼	8¼	7⅜	10¼	1¾	12½
24	25⅞	24⅞	14	5	2½	11¼	8⅜	8¼	11¼	1⅞	17½
30	33¼	30¾	17½	6	3½	11½	10 1/16	9 13/16	12½	2½	21
36	39¼	36¾	20½	7	4½	12½	10 9/16	10 9/16	14	3	26
42	46	43	24	8	5½	13½	10 13/16	11 7/16	15½	3½	29
48	52	49	27	8	5½	14½	12	12¼	17	4	34
54	58	55	30	9	5½	15½	12½	12¾	18½	4½	39
60	64	61	33	10	6½	16½	13	13½	20	5	44
66	70½	67½	37	10	6½	18½	14	14½	22½	5½	47
72	77½	73½	40	12	7½	21	17⅜	17⅝	25½	6	52
84	89½	85½	46	14	8½	24	18⅝	19⅝	29½	7	60
96	101½	97½	52	16	10½	27	21	22½	33½	8	70
108	113½	109½	58	18	12½	30	22½	24	36½	9	80
120	128½	121½	64	20	14½	33	25	26¼	39½	10	90

30" Sturtevant Disc Fan — Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
280	2200	0 119	2,700	0.066												
306	2400	0.141	2,940	0.085												
330	2600	0.167	3,190	0 110												
356	2800	0.192	3,440	0 135												
382	3000	0.221	3,680	0 165												
408	3200	0.251	3,930	0 200												
433	3400	0.284	4,180	0.240	785	0.455										
459	3600	0.318	4,430	0.285	1,420	0.50										
485	3800	0.354	4,670	0 335	1,960	0.57										
510	4000	0.392	4,910	0 395	2,320	0.65										
535	4200	0.432	5,160	0.455	2,530	0.73	1,100	0 84								
560	4400	0 475	5,400	0 53	2,730	0.81	1,780	0 93								
585	4600	0.519	5,650	0.60	2,890	0.89	2,260	1.00								
611	4800	0 565	5,900	0 68	3,070	0.98	2,690	1.20	1,060	1.30						
636	5000	0.613	6,140	0 77	3,250	1.10	2,970	1.25	1,790	1.40						
669	5250	0.676	6,460	0.89	3,530	1.20	3,220	1.40	2,500	1.55						
700	5500	0 741	6,760	1.00	3,800	1.40	3,430	1.55	3,030	1.75						
732	5750	0.810	7,070	1 15	4,130	1 55	3,640	1.70	3,390	1.90	791	2.35				
765	6000	0.881	7,370	1 35	4,420	1.70	3,860	1.90	3,650	2 10	1,800	2.45				
796	6250	0.956	7,680	1 50	4,680	1 90	4,080	2.05	3,900	2 30	2,550	2.65				
828	6500	1.035	7,980	1.70	5,030	2.05	4,380	2.3	4,080	2.50	3,220	2.90				
860	6750	1.119	8,280	1 90			4,680	2.5	4,320	2.75	3,730	3.15	1,400	3.80		
891	7000	1.200	8,600	2.10					4,530	3.00	4,060	3.40	2,320	4.05		
955	7500	1.380	9,210	2 60					5,070	3 55	4,600	4 05	3,690	4.5		
1020	8000	1.570	9,820	3.15					5,630	4 15	5,030	4.65	4,630	5.2	629	6 8
1081	8500	1.770	10,400	3 75					6,270	4.85	5,520	5.4	5,180	6.0	2,630	6 9
1147	9000	1.985	11,100	4 45							6,020	6.2	5,640	6.9	4,080	7.7
1210	9500	2 21	11,700	5.3							6,580	7.1	6,070	7.7	5,230	9
1272	10000	2.45	12,300	6.2							7,170	8.1	6,510	8.7	5,950	10

36" Sturtevant Disc Fan — Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
233	2200	0 119	3,890	0.094												
255	2400	0.141	4,250	0 120												
276	2600	0.167	4,600	0.155												
297	2800	0.192	4,950	0.195												
318	3000	0.221	5,310	0.240												
340	3200	0.251	5,670	0.290												
361	3400	0 284	6,010	0 350	1,130	0.66										
382	3600	0 318	6,380	0.415	2,040	0 72										
403	3800	0.354	6,720	0.485	2,830	0.82										
425	4000	0.392	7,070	0.56	3,340	0.93										
445	4200	0.432	7,430	0.66	3,650	1.05	1,580	1.20								
467	4400	0.475	7,780	0.76	3,930	1.15	2,500	1.35								
488	4600	0.519	8,130	0.86	4,170	1 30	3,250	1.45								
510	4800	0.565	8,500	0 98	4,420	1.40	3,870	1 70	1,530	1.85						
531	5000	0.613	8,850	1.10	4,680	1.55	4,280	1.80	2,580	2.00						
557	5250	0.676	9,300	1 30	5,090	1.75	4,640	2.00	3,610	2.25						
584	5500	0.741	9,730	1.45	5,480	2 00	4,930	2.25	4,350	2.50						
610	5750	0.810	10,200	1.70	5,940	2.20	5,240	2.50	4,870	2.75	1,150	3.35				
637	6000	0.881	10,600	1.90	6,380	2.45	5,560	2.70	5,270	3.05	2,590	3.50				
663	6250	0.956	11,100	2 15	6,760	2 70	5,880	2.95	5,620	3 35	3,670	3.80				
690	6500	1.035	11,500	2.45	7,260	2.95	6,320	3.30	5,880	3.65	4,630	4.20				
716	6750	1.119	11,900	2.70			6,730	3.65	6,210	3.95	5,370	4.55	2,010	5.5		
743	7000	1.200	12,400	3.05					6,530	4.3	5,840	4.9	3,350	5.8		
796	7500	1.380	13,300	3.75					7,310	5.1	6,630	5 8	5,300	6.5		
849	8000	1.570	14,200	4.5					8,090	6	7,250	6 7	6,680	7.5	905	9.7
902	8500	1.770	15,000	5.4					9,020	7	7,960	7.8	7,460	8.6	3,780	10.0
955	9000	1.985	15,900	6 5							8,660	8.9	8,130	9.8	5,880	11.0
1008	9500	2.21	16,809	7.6							9,480	10.0	8,750	11.0	7,530	13.0
1060	10000	2.45	17,700	8.8							10,300	11.5	9,380	12.5	8,560	14.5

42" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R. P. M.	Tip Speed F. P. M.	S. N. D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
200	2200	0.119	5,280	0.130												
218	2400	0.141	5,780	0.165												
236	2600	0.167	6,260	0.210												
255	2800	0.192	6,740	0.265												
273	3000	0.221	7,230	0.325												
291	3200	0.251	7,700	0.395												
309	3400	0.284	8,180	0.475	1,540	0.89										
329	3600	0.318	8,680	0.56	2,780	0.99										
346	3800	0.354	9,150	0.66	3,840	1.10										
364	4000	0.392	9,620	0.77	4,550	1.25										
382	4200	0.432	10,100	0.89	4,970	1.40	2,150	1.65								
400	4400	0.475	10,600	1.05	5,350	1.60	3,480	1.85								
418	4600	0.519	11,100	1.15	5,670	1.75	4,430	2.00								
436	4800	0.565	11,600	1.35	6,000	1.95	5,270	2.30	2,080	2.50						
455	5000	0.613	12,100	1.50	6,380	2.15	5,830	2.45	3,510	2.70						
478	5250	0.676	12,700	1.75	6,930	2.40	6,320	2.75	4,910	3.05						
500	5500	0.741	13,300	2.00	7,460	2.70	6,720	3.05	5,930	3.40						
523	5750	0.810	13,800	2.30	8,080	3.00	7,140	3.40	6,640	3.75	1,550	4.60				
545	6000	0.881	14,500	2.60	8,670	3.35	7,560	3.70	7,170	4.15	3,520	4.75				
569	6250	0.956	15,000	2.95	9,210	3.7	8,010	4.05	7,640	4.55	5,000	5.2				
591	6500	1.035	15,700	3.30	9,870	4	8,610	4.50	8,010	4.95	6,320	5.7				
614	6750	1.119	16,300	3.70			9,160	4.95	8,440	5.4	7,310	6.2	2,750	7.5		
636	7000	1.200	16,900	4.15					8,900	5.8	7,960	6.7	4,550	7.9		
682	7500	1.380	18,100	5.1					9,950	6.9	9,020	7.9	7,230	8.9		
727	8000	1.570	19,300	6.2					11,100	8.1	9,880	9.2	9,080	10.0	1,230	13.0
773	8500	1.770	20,500	7.4					12,300	9.5	10,900	10.5	10,200	11.5	5,150	13.5
818	9000	1.985	21,700	8.8							11,800	12	11,100	13.5	8,020	15.0
864	9500	2.210	22,900	10.5							12,900	14	11,900	15	10,300	17.5
910	10000	2.45	24,100	12							14,100	16	12,800	17	11,700	19.5

48" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R. P. M.	Tip Speed F. P. M.	S. N. D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
175	2200	0.119	6,940	0.170												
191	2400	0.141	7,570	0.220												
207	2600	0.167	8,200	0.280												
223	2800	0.192	8,830	0.350												
239	3000	0.221	9,450	0.425												
255	3200	0.251	10,100	0.52												
271	3400	0.284	10,700	0.62	2,010	1.15										
287	3600	0.318	11,400	0.74	3,630	1.30										
302	3800	0.354	12,000	0.87	5,030	1.45										
319	4000	0.392	12,600	1.00	5,960	1.65										
334	4200	0.432	13,300	1.15	6,500	1.85	2,010	2.15								
350	4400	0.475	13,900	1.35	7,000	2.10	4,560	2.40								
366	4600	0.519	14,500	1.55	7,430	2.30	5,810	2.60								
382	4800	0.565	15,200	1.75	7,870	2.50	6,900	3.05	2,720	3.30						
398	5000	0.613	15,800	1.95	8,350	2.80	7,630	3.20	4,600	3.50						
418	5250	0.676	16,600	2.30	9,080	3.15	8,270	3.60	6,430	4.00						
438	5500	0.741	17,400	2.60	9,770	3.55	8,800	4.00	7,770	4.45						
458	5750	0.810	18,200	3.00	10,600	3.95	9,350	4.45	8,700	4.9	2,030	6.0				
478	6000	0.881	18,900	3.40	11,400	4.40	9,900	4.85	9,380	5.4	4,630	6.2				
498	6250	0.956	19,700	3.85	12,100	4.85	10,500	5.3	10,000	6.0	6,540	6.8				
517	6500	1.035	20,500	4.35	12,900	5.2	11,300	5.9	10,500	6.5	8,280	7.5				
537	6750	1.119	21,300	4.85			12,000	6.5	11,000	7.1	9,560	8.1	3,580	9.8		
557	7000	1.200	22,100	5.4					11,700	7.6	10,400	8.7	5,960	10.5		
597	7500	1.380	23,700	6.7					13,000	9.1	11,800	10.5	9,450	11.5		
637	8000	1.570	25,200	8.1					14,500	10.5	12,900	12	11,900	13.5	1,620	17.5
677	8500	1.770	26,800	9.7					16,100	12.5	14,100	14	13,300	15.5	6,750	18
717	9000	1.985	28,400	11.5							15,500	16	14,500	17.5	10,500	20
756	9500	2.210	30,000	13.5							16,900	18	15,600	20.0	13,400	23
796	10000	2.45	31,500	16							18,400	21	16,700	22.5	15,300	26

54" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
156	2200	0.119	8,750	0.210												
170	2400	0.141	9,550	0.275												
184	2600	0.167	10,300	0.35												
198	2800	0.192	11,100	0.44												
212	3000	0.221	12,000	0.51												
226	3200	0.251	12,800	0.65												
240	3400	0.284	13,500	0.78	2,550	1.45										
255	3600	0.318	14,300	0.93	4,580	1.65										
269	3800	0.354	15,100	1.10	6,350	1.85										
283	4000	0.392	15,900	1.25	7,520	2.10										
297	4200	0.432	16,700	1.45	8,220	2.35	3,550	2.70								
311	4400	0.475	17,500	1.70	8,830	2.60	5,750	3.00								
325	4600	0.519	18,300	1.95	9,380	2.90	7,330	3.30								
340	4800	0.565	19,100	2.20	9,930	3.20	8,710	3.80	3,440	4.15						
354	5000	0.613	19,900	2.50	10,500	3.50	9,630	4.05	5,810	4.45						
372	5250	0.676	20,900	2.90	11,500	3.95	10,500	4.55	8,130	5.1						
389	5500	0.741	21,900	3.30	12,300	4.45	11,100	5.0	9,800	5.6						
407	5750	0.810	22,900	3.80	13,400	4.95	11,800	5.6	11,000	6.2	2,560	7.6				
425	6000	0.881	23,900	4.30	14,300	5.6	12,500	6.1	11,800	6.8	5,830	7.9				
442	6250	0.956	24,900	4.85	15,200	6.1	13,300	6.7	12,600	7.5	8,260	8.6				
460	6500	1.035	25,900	5.5	16,400	6.6	14,200	7.5	13,200	8.2	10,500	9.4				
478	6750	1.119	26,900	6.1			15,200	8.2	14,000	8.9	12,100	10.5	4,530	12.5		
495	7000	1.200	27,900	6.8					14,700	9.7	13,200	11.0	7,520	13.0		
530	7500	1.380	29,800	8.4					16,500	11.5	14,900	13.0	12,000	14.5		
506	8000	1.570	31,800	10.0					18,300	13.5	16,300	15.0	15,000	17.0	2,040	22.0
601	8500	1.770	33,900	12.0					20,300	15.5	17,900	17.5	16,800	19.5	8,500	22.5
637	9000	1.985	35,800	14.5							19,500	20	18,300	22	13,300	25
672	9500	2.21	37,800	17							21,300	23	19,700	25	17,000	29
708	10000	2.45	39,800	20							23,200	26	21,100	28	19,300	33

60" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
140	2200	0.119	10,800	0.26												
153	2400	0.141	11,800	0.34												
166	2600	0.167	12,800	0.43												
178	2800	0.192	13,700	0.54												
191	3000	0.221	14,700	0.66												
204	3200	0.251	15,700	0.80												
216	3400	0.284	16,700	0.96	3,140	1.80										
229	3600	0.318	17,700	1.15	5,650	2.00										
242	3800	0.354	18,700	1.35	7,850	2.30										
255	4000	0.392	19,600	1.55	9,250	2.60										
268	4200	0.432	20,600	1.80	10,100	2.90	4,370	3.35								
280	4400	0.475	21,600	2.10	10,900	3.25	7,080	3.7								
293	4600	0.519	22,600	2.40	11,600	3.60	9,020	4.1								
306	4800	0.565	23,500	2.70	12,200	3.90	10,700	4.6	4,230	5.1						
319	5000	0.613	24,500	3.05	13,000	4.35	11,900	5.0	7,160	5.5						
334	5250	0.676	25,800	3.55	14,100	4.9	12,800	5.6	10,000	6.2						
350	5500	0.741	27,000	4.10	15,200	5.5	13,700	6.2	12,100	6.9						
366	5750	0.810	28,200	4.65	16,500	6.1	14,500	6.9	13,500	7.6	3,160	9.4				
382	6000	0.881	29,400	5.3	17,700	6.8	15,400	7.5	14,600	8.4	7,180	9.7				
398	6250	0.956	30,700	6.0	18,800	7.5	16,300	8.3	15,600	9.3	10,200	10.5				
414	6500	1.035	31,900	6.8	20,100	8.2	17,500	9.2	16,300	10.0	12,900	11.5				
430	6750	1.119	33,100	7.5			18,700	10	17,200	11.0	14,900	12.5	5,580	15.5		
446	7000	1.200	34,400	8.4					18,100	12.0	16,200	13.5	9,280	16.0		
478	7500	1.380	36,800	10.5					20,300	14.0	18,400	16.0	14,700	18.0		
510	8000	1.570	39,200	12.5					22,500	16.5	20,100	18.5	18,600	20.5	2,510	27
541	8500	1.770	41,700	15					25,000	19.5	21,900	21.5	20,700	24	10,500	28
573	9000	1.985	44,200	18							24,000	24.5	22,500	27	16,300	31
605	9500	2.21	46,600	21							26,300	28	24,300	31	20,900	36
636	10000	2.45	49,000	25							28,700	32	26,000	35	23,700	40

66" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
127	2200	0 119	13,100	0 315												
139	2400	0 141	14,300	0 415												
150	2600	0.167	15,500	0 53												
162	2800	0.192	16,700	0 66												
174	3000	0.221	17,900	0.81												
185	3200	0 251	19,100	0 98												
197	3400	0 284	20,300	1 15	3,800	2 20										
208	3600	0 318	21,400	1.40	6,860	2 45										
220	3800	0.354	22,600	1.65	9,490	2 75										
231	4000	0 392	23,800	1 90	11,300	3 15										
243	4200	0.432	25,000	2 20	12,300	3.50	5,310	4 05								
255	4400	0 475	26,200	2 56	13,200	3 90	8,590	4 50								
266	4600	0 519	27,400	2 90	14,000	4 35	11,000	4 95								
278	4800	0 565	28,600	3 30	14,900	4 76	13,000	5 7	5,140	6 20						
289	5000	0 613	29,800	3 75	15,800	5 3	14,400	6.1	8,700	6 70						
304	5250	0 676	31,300	4 35	17,200	5 9	15,700	6 8	12,200	7.51						
318	5500	0.741	32,800	4 95	18,500	6 7	16,600	7.5	14,700	8 4						
333	5750	0 810	34,200	5 7	20,000	7 4	17,700	8.4	16,400	9 3	3,840	11 5				
347	6000	0 881	35,700	6.5	21,400	8 3	18,700	9.2	17,700	10 0	8,710	12 0				
361	6250	0 956	37,200	7 3	22,800	9 2	19,800	10 0	18,900	11 0	12,400	13 0				
375	6500	1 035	38,700	8 2	24,400	9 9	21,300	11 0	19,800	12.0	15,600	14.0				
390	6750	1.119	40,200	9 2			22,700	12.5	20,900	13.5	18,100	15.5	6,770	18 5		
405	7000	1 200	41,700	10 0					22,000	14.5	19,700	16 5	11,300	19.5		
434	7500	1 380	44,700	12 5					24,000	17 0	22,300	19 5	17,800	22		
462	8000	1 570	47,700	15 5					27,200	20 0	24,400	22 5	22,500	25	3,050	33
491	8500	1.770	50,600	18 5					30,400	23.5	26,800	26	25,100	29	12,800	34
520	9000	1 985	53,600	21 5							29,200	30	27,300	33	19,800	38
549	9500	2.21	56,600	26							31,900	34	29,400	37	25,300	43
577	10000	2.45	59,500	30							34,800	39	31,600	42	28,800	49

72" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
117	2200	0.119	15,600	0 38												
127	2400	0 141	17,000	0.49												
138	2600	0.167	18,400	0.63												
148	2800	0 192	19,800	0 78												
159	3000	0 221	21,300	0.96												
170	3200	0.251	22,700	1 15												
180	3400	0.284	24,100	1 40	4,520	2 60										
191	3600	0.318	25,500	1.65	8,150	2 90										
202	3800	0.354	26,900	1 95	11,300	3 30										
212	4000	0.392	28,300	2 25	13,400	3.74										
223	4200	0.432	29,800	2.60	14,600	4 20	6,320	4 85								
233	4400	0.475	31,200	3 05	15,700	4 65	10,200	5 4								
244	4600	0.519	32,600	3.45	16,700	5 2	13,000	5 9								
254	4800	0.565	34,000	3 90	17,700	5.7	15,500	6.8	6,120	7.4						
265	5000	0 613	35,400	4 45	18,800	6 3	17,100	7 2	10,300	7 9						
278	5250	0 676	37,200	5 1	20,400	7.0	18,600	8.1	14,500	9 0						
292	5500	0 741	38,900	5 9	21,900	7.9	19,800	8.9	17,500	10.0						
305	5750	0.810	40,700	6.7	23,800	8 8	21,000	9.9	19,500	11 0	4,570	13 5				
318	6000	0 881	42,500	7 7	25,500	9.9	22,300	11.0	21,000	12 0	10,400	14 0				
331	6250	0.956	44,300	8.6	27,100	11	23,500	12 0	22,500	13 5	14,700	15 0				
345	6500	1 035	46,000	9.7	29,000	12	25,300	13.5	23,500	14.5	18,600	17.0				
358	6750	1.119	47,800	11 0			26,900	14.5	24,800	16 0	21,500	18.5	8,050	22		
371	7000	1.200	49,600	12 0					26,200	17.0	23,400	19.5	13,400	23		
398	7500	1.380	53,200	15 0					29,300	20.5	26,500	23	21,300	26		
425	8000	1.570	56,700	18.0					32,400	24	29,000	27	26,700	30	3,030	39
450	8500	1.770	60,200	21 5					36,200	28	31,800	31	29,900	34	15,200	40
476	9000	1.985	63,800	26.							34,700	36	32,500	39	23,600	45
504	9500	2 21	67,200	30.							38,000	41	35,000	44	30,200	52
530	10000	2.45	70,800	35							41,300	47	37,600	50	34,200	58

78" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
108	2200	0.119	18,300	0.445												
117	2400	0.141	19,900	0.57												
127	2600	0.167	21,600	0.73												
137	2800	0.192	23,300	0.92												
147	3000	0.221	25,000	1.10												
156	3200	0.251	26,600	1.35												
166	3400	0.284	28,300	1.65	5,310	3.05										
176	3600	0.318	30,000	1.95	9,580	3.40										
186	3800	0.354	31,600	2.30	13,300	3.85										
195	4000	0.392	33,200	2.65	15,700	4.4										
205	4200	0.432	34,900	3.10	17,200	4.9	7,410	5.7								
215	4400	0.475	36,600	3.55	18,500	5.5	12,000	6.3								
225	4600	0.519	38,200	4.05	19,600	6.1	15,300	6.9								
234	4800	0.565	39,800	4.6	20,700	6.6	18,200	8.0	7,180	8.7						
244	5000	0.613	41,600	5.2	22,000	7.4	20,100	8.5	12,100	9.3						
257	5250	0.676	43,800	6.0	23,900	8.3	21,800	9.5	17,000	10.5						
269	5500	0.741	45,700	6.9	25,700	9.3	23,200	10.5	20,500	11.5						
281	5750	0.810	47,800	7.9	27,900	10.5	24,600	11.5	22,900	13.0	5,350	16.0				
293	6000	0.881	50,000	9.0	29,900	11.5	26,100	13.0	24,700	14.0	12,200	16.5				
306	6250	0.956	52,000	10.0	31,800	13	27,600	14.0	26,400	15.5	17,200	18.0				
318	6500	1.035	54,000	11.5	34,000	14	29,700	15.5	27,600	17.0	21,800	19.5				
330	6750	1.119	56,100	13.0			31,600	17	29,100	18.5	25,200	21.5	9,430	26		
343	7000	1.200	58,200	14.0					30,700	20	27,500	23	15,700	27		
368	7500	1.380	62,300	17.5					34,400	24	31,100	27	24,900	31		
393	8000	1.570	66,500	21.5					38,100	28	34,000	32	31,300	35	4,250	45
417	8500	1.770	70,700	26					42,300	33	37,300	36	35,000	40	17,800	47
442	9000	1.985	74,800	30							40,700	42	38,100	46	27,700	52
466	9500	2.21	78,900	36							44,500	48	41,100	52	35,400	60
490	10000	2.45	83,000	42							48,500	54	44,000	58	40,200	68

84" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
100	2200	0.119	21,200	0.52												
109	2400	0.141	23,100	0.67												
118	2600	0.167	25,000	0.85												
127	2800	0.192	27,000	1.05												
136	3000	0.221	28,900	1.30												
145	3200	0.251	30,800	1.60												
155	3400	0.284	32,700	1.90	6,150	3.55										
164	3600	0.318	34,700	2.25	11,100	3.95										
173	3800	0.354	36,600	2.65	15,400	4.5										
182	4000	0.392	38,500	3.10	18,200	5.1										
191	4200	0.432	40,400	3.55	19,900	5.7	8,590	6.6								
200	4400	0.475	42,300	4.15	21,400	6.4	13,900	7.3								
209	4600	0.519	44,300	4.7	22,700	7.0	17,700	8.0								
218	4800	0.565	46,300	5.3	24,000	7.7	21,100	9.3	8,310	10.0						
228	5000	0.613	48,200	6.0	25,500	8.5	23,300	9.8	14,100	11.0						
239	5250	0.676	50,700	7.0	27,700	9.6	25,300	11.0	19,700	12.0						
250	5500	0.741	53,000	8.0	29,800	11.0	26,900	12.0	23,700	13.5						
262	5750	0.810	55,300	9.2	32,400	12.0	28,600	13.5	26,600	15.0	6,200	18.5				
272	6000	0.881	57,800	10.5	34,600	13.5	30,300	15	28,600	16.5	14,100	19				
284	6250	0.956	60,200	11.5	36,800	15	32,000	16	30,500	18.0	20,000	21				
296	6500	1.035	62,600	13.0	39,400	16	34,400	18	32,000	20.0	25,300	23				
307	6750	1.119	65,000	15.0			36,600	20	33,800	21.5	29,200	25	11,000	30		
318	7000	1.200	67,400	16.5					35,500	23.5	31,800	27	18,200	32		
341	7500	1.380	72,300	20.0					39,800	28	36,100	32	28,900	35		
364	8000	1.570	77,100	24.5					44,200	33	39,500	37	36,400	41	4,030	52
386	8500	1.770	81,800	29					49,100	38	43,300	42	40,600	47	20,600	54
409	9000	1.985	86,700	35							47,200	48	44,200	54	32,100	60
432	9500	2.21	91,500	41							51,600	56	47,700	60	41,000	70
455	10000	2.45	96,200	48							56,300	64	51,000	68	46,600	78

96" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
88	2200	0.119	27,700	0 67												
96	2400	0.141	30,200	0.87												
103	2600	0 167	32,700	1 10												
111	2800	0.192	35,200	1 40												
119	3000	0.221	37,700	1.70												
127	3200	0.251	40,300	2.05												
135	3400	0.284	42,700	2.50	8,040	4.65										
143	3600	0 318	45,300	2.95	14,500	5 2										
151	3800	0.354	47,800	3.45	20,100	5 9										
159	4000	0 392	50,300	4.05	23,800	6.7										
167	4200	0.432	52,800	4 65	25,900	7.4	11,200	8.6								
175	4400	0.475	55,300	5 4	27,900	8 3	18,200	9.6								
183	4600	0.519	57,800	6.1	29,600	9 2	23,200	10.5								
191	4800	0 565	60,400	7.0	31,400	10.0	27,600	12.0	10,900	13.0						
198	5000	0.613	62,800	7.9	33,300	11.0	30,500	13.0	18,400	14.0						
209	5250	0.676	66,200	9 1	36,200	12.5	33,000	14.5	25,600	16.0						
218	5500	0 741	69,200	10 5	39,000	14 0	35,100	16.0	31,000	17.5						
228	5750	0.810	72,300	12.0	42,300	15 5	37,300	17.5	34,700	19.5	8,100	24				
239	6000	0.881	75,500	13.5	45,300	17.5	39,600	19.5	37,400	21.5	18,400	25				
248	6250	0.956	78,700	15.5	48,100	19.5	41,800	21.0	40,000	23.5	26,100	27				
259	6500	1.035	81,700	17 5	51,600	21	45,000	23.5	41,800	26	33,000	30				
268	6750	1.119	84,900	19 5			47,800	26	44,100	28	38,200	33	14,300	39		
278	7000	1.200	89,200	21 5					46,400	31	41,600	35	23,800	41		
298	7500	1.380	94,300	26					52,100	36	47,200	41	37,800	46		
318	8000	1.570	101,000	32					57,700	42	51,600	48	47,500	54	6,440	70
338	8500	1.770	107,000	39					64,200	50	56,600	56	53,000	60	26,900	70
350	9000	1.985	113,000	46							61,600	64	57,800	70	41,800	80
378	9500	2.21	120,000	54							67,500	72	62,300	78	53,500	92
397	10000	2.45	126,000	62							73,500	82	66,700	90	61,000	100

108" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
78	2200	0.119	35,000	0.85												
85	2400	0.141	38,200	1.10												
92	2600	0.167	41,300	1.40												
99	2800	0.192	44,500	1.75												
106	3000	0 221	47,800	2.15												
113	3200	0.251	50,900	2.60												
120	3400	0.284	54,200	3.10	10,200	5 9										
130	3600	0.318	57,200	3.70	18,300	6 5										
136	3800	0.354	60,400	4.35	25,400	7.4										
142	4000	0.392	63,600	5.1	30,000	8.4										
149	4200	0.432	66,800	5.9	32,900	9.4	14,200	11.0								
156	4400	0.475	70,000	6.8	35,300	10.5	23,000	12.0								
163	4600	0.519	73,300	7.8	37,500	11.5	29,300	13.0								
170	4800	0.565	76,400	8.8	39,700	12.5	34,900	15.5	13,800	16.5						
177	5000	0.613	79,600	9.9	42,200	14.0	38,500	16.0	23,200	18.0						
186	5250	0.676	83,600	11 5	45,800	16.0	41,800	18.0	32,500	20.0						
196	5500	0.741	87,500	13.0	49,300	18 0	44,400	20.0	39,300	22.5						
204	5750	0.810	91,400	15.0	53,500	20.0	47,200	22.5	43,900	25	10,300	30				
213	6000	0.881	95,500	17 0	57,300	22 0	50,000	24.5	47,300	27	23,300	32				
222	6250	0 956	99,500	19.5	60,800	24.5	52,800	27	50,500	30	33,000	34				
230	6500	1.035	104,000	22.0	65,200	26	56,800	30	52,900	33	41,700	38				
239	6750	1.119	108,000	24.5			60,600	33	55,800	36	48,300	41	18,100	50		
248	7000	1.200	111,000	27					58,800	39	52,600	44	30,100	52		
206	7500	1.380	119,000	34					65,800	46	59,600	52	47,800	58		
283	8000	1.570	127,000	41					72,900	54	65,200	60	60,100	68	8,140	88
301	8500	1.770	135,000	49					81,300	62	71,600	70	67,200	78	34,100	90
319	9000	1.985	143,000	58							78,000	80	73,000	88	52,900	100
336	9500	2.21	151,000	68							85,300	92	78,700	100	67,700	115
354	10000	2.45	159,000	80							93,000	105	84,400	115	77,100	130

120" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

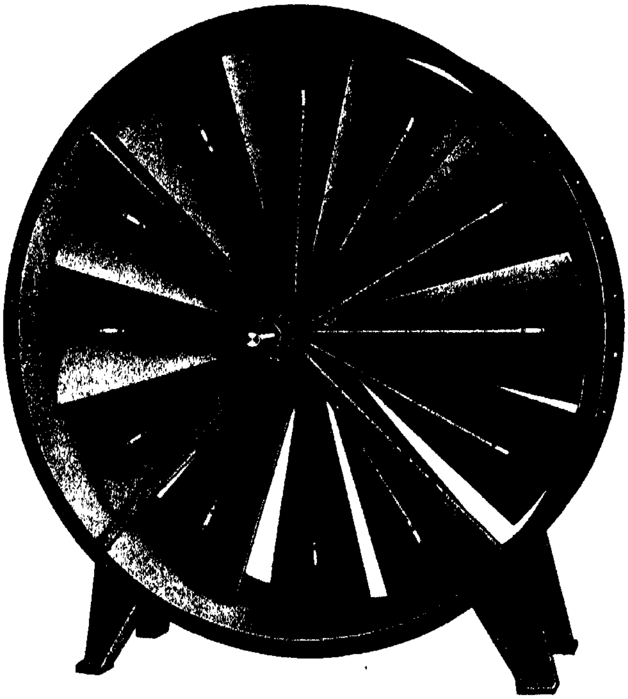
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
70	2200	0 119	43,200	1.05												
76	2400	0 141	47,200	1 35												
83	2600	0.167	51,000	1.75												
89	2800	0 192	55,100	2.15												
96	3000	0 221	59,000	2.65												
102	3200	0 251	62,900	3.20												
108	3400	0 284	66,800	3 85	12,500	7.3										
115	3600	0 318	70,700	4.6	22,600	8.1										
121	3800	0 354	74,700	5.4	31,400	9.2										
127	4000	0 392	78,000	6.3	37,100	10.5										
134	4200	0 432	82,700	7 3	40,600	11.5	17,500	13.5								
140	4400	0.475	86,500	8 4	43,700	13.0	28,400	15 0								
146	4600	0 519	90,400	9 6	46,300	14.5	36,200	16.5								
153	4800	0 565	94,300	11 0	49,100	15.5	43,000	19 0	17,000	20.5						
159	5000	0 613	98,300	12 5	52,100	17.5	47,600	20.0	28,700	22						
167	5250	0.676	103,000	14 0	56,700	19.5	51,500	22 5	40,000	25						
175	5500	0 741	108,000	16 5	61,000	22.0	54,800	25	48,500	28						
183	5750	0 810	113,000	18.5	66,100	24.5	58,300	28	54,200	31	12,700	38				
191	6000	0 881	118,000	21	70,800	28	61,800	30	58,400	34	20,800	39				
199	6250	0 956	123,000	24	75,200	30	65,400	33	62,400	37	40,800	42				
207	6500	1 035	128,000	27	80,500	33	70,300	37	65,400	40	51,500	47				
215	6750	1 119	133,000	30			74,800	41	68,000	44	59,700	50	22,400	62		
223	7000	1.200	138,000	34					72,600	48	65,000	54	37,200	64		
239	7500	1.380	148,000	42					81,200	56	73,700	64	59,000	72		
255	8000	1.570	158,000	50					90,200	66	80,500	74	74,300	84	10,000	105
271	8500	1 770	167,000	60					100,000	78	88,400	86	83,000	96	42,000	110
286	9000	1 985	177,000	72							96,300	98	90,400	110	65,500	125
302	9500	2.21	187,000	84							105,000	115	97,200	125	83,600	145
318	10000	2 45	197,000	98							115,000	130	104,000	140	95,100	160

STURTEVANT DISC FANS

Design 2

Dimensions, Capacities, Horse Powers

Sturtevant Disc Fan—Design 2



Sturtevant Disc Fan—Design 2

DISC FAN—DESIGN 2

SPECIFICATIONS

There shall be furnished a Sturtevant........ Design 2 Disc Fan having a capacity of........ cubic feet per minute against a resistance of ......inches water gauge and shall operate at approximately........R. P. M., requiring approximately........B. H. P.

The wheel shall have 12 floats, firmly riveted to the hub. To give additional strength, sizes 42-inch and larger shall have each float braced with supports extending from a special ring on the hub to a point near the outer end of the float.

The casing shall consist of steel plate of........ gauge suitably supported with angle irons on both inlet and outlet sides. Removable feet shall be bolted to the fan casing.

Sturtevant Disc Fan—Design 2

EXPLANATION OF TABLES

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

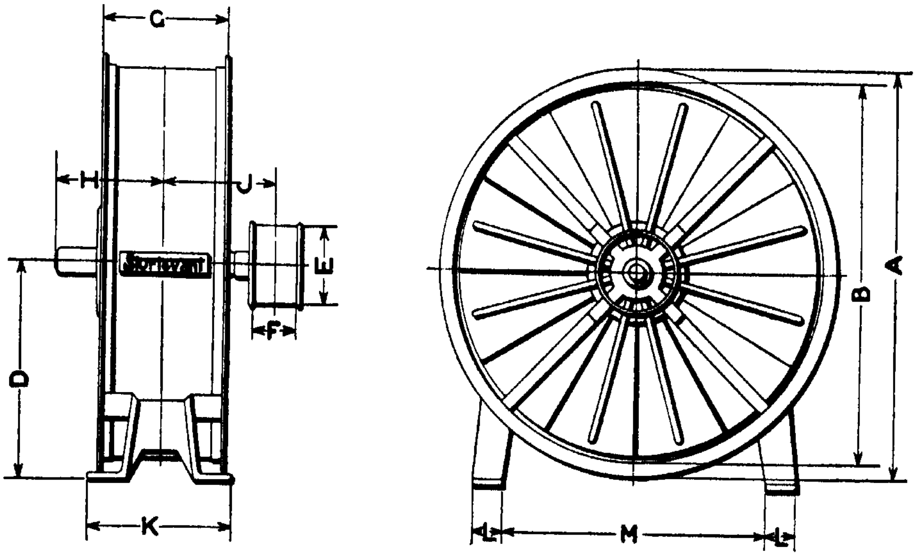
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

Disc Fan—Design 2

APPROXIMATE WEIGHTS

Size	Weight Not Packed
18	70
24	100
30	140
36	200
42	260
48	340
54	420
60	520
66	640
72	800
84	1180
96	1600
108	2200
120	2800

Disc Fan — Design 2



Fan Size	A	B	D	E	F	G	H	J	K	L	M
18	19⅝	18¾	11	4	2½	10⅛	6 11/16	7 11/16	10⅛	1¾	12½
24	25¼	24¾	14	6	3½	10⅜	7 3/16	8 5/16	10⅜	1⅞	17⅜
30	33¼	30¾	18	8	4½	12⅜	9⅛	10¼	12⅜	2	22
36	39¼	36¾	21	10	4½	13⅛	9½	10⅝	13⅛	2⅛	25⅞
42	46	43	25	12	5½	14⅜	10 5/16	12⅛	14⅜	2⅜	29⅛
48	52	49	28	14	5½	15⅞	11	12 13/16	15⅞	2¾	35¼
54	58	55	31	14	6½	16⅝	11⅜	13 7/16	16⅝	3⅛	39⅞
60	65	61	35	16	6½	17¾	11 13/16	14	17¾	3½	44½
66	71½	67½	39	16	7½	18¾	12½	15	18¾	3⅞	48⅜
72	77½	73½	42	18	7½	22⅜	15 13/16	18 7/16	22⅜	4¼	52¾
84	90½	85½	49	20	8½	24½	16⅞	19⅞	24½	4⅝	61⅝
96	102½	97½	55	24	8½	27¼	18 11/16	21 13/16	27¼	5	71
108	116½	109½	62	28	10½	31⅛	21¾	25 7/16	31⅛	5½	80
120	128½	121½	69	32	12½	35	24⅝	28 5/16	35	6	87

18" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
467	2200	0.137	1,540	0.018												
508	2400	0.164	1,680	0.023												
552	2600	0.192	1,820	0.029												
595	2800	0.223	1,960	0 036												
637	3000	0.256	2,100	0.045	138	0 076										
680	3200	0.291	2,240	0.054	311	0 084										
722	3400	0.328	2,380	0.065	446	0.100										
765	3600	0 368	2,520	0.077	570	0 115										
807	3800	0.410	2,660	0 091	686	0.130	289	0 150								
850	4000	0.455	2,800	0.105	807	0.145	446	0.170								
892	4200	0.501	2,910	0 125	935	0.160	571	0.190	149	0.200						
935	4400	0 550	3,080	0 140	1,050	0 175	690	0.215	342	0.230						
974	4600	0.601	3,220	0.160	1,180	0.195	815	0.235	505	0 260						
1020	4800	0.655	3,360	0 180	1,320	0.215	934	0 255	629	0 285						
1060	5000	0.710	3,500	0.205	1,480	0.235	1,050	0.280	735	0 310						
1114	5250	0.784	3,660	0 240	1,690	0 265	1,210	0.310	883	0.350	297	0.405				
1169	5500	0.859	3,840	0.275	1,930	0.295	1,360	0 340	1,040	0.385	516	0 450				
1220	5750	0.94	4,020	0 315	2,160	0 335	1,530	0.370	1,200	0 42	683	0.495				
1273	6000	1 02	4,200	0.360	2,420	0 375	1,700	0.410	1,360	0 46	828	0 54	276	0.62		
1328	6250	1 11	4,370	0 405	2,680	0.420	1,900	0 455	1,490	0.50	962	0 59	510	0 67		
1380	6500	1 20	4,550	0 455	2,920	0.465	2,120	0 495	1,670	0 55	1,130	0 65	703	0.72		
1433	6750	1 30	4,720	0 51			2,370	0 55	1,830	0 59	1,290	0.70	861	0.78		
1485	7000	1 39	4,900	0.57			2,590	0 59	2,010	0 64	1,430	0 76	991	0 85		
1591	7500	1 60	5,240	0 70			3,110	0 73	2,440	0 76	1,740	0 88	1,300	0.99	478	1.15
1700	8000	1 82	5,600	0 84					2,920	0 90	2,040	1.00	1,610	1.15	891	1.35
1805	8500	2.05	5,950	1 00					3,420	1 05	2,410	1.15	1,930	1.30	1,170	1.55
1910	9000	2 30	6,300	1.20					3,980	1 25	2,820	1 30	2,220	1.45	1,480	1.75
2020	9500	2 56	6,640	1 40							3,280	1.50	2,540	1.65	1,780	2 00
2120	10000	2 84	6,990	1 65							3,770	1.75	2,960	1.9	2,120	2.25

24" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
351	2200	0.137	2,730	0.031												
382	2400	0.164	2,980	0.041												
415	2600	0 192	3,230	0 052												
446	2800	0.223	3,480	0 065												
478	3000	0.256	3,720	0 079	245	0.135										
508	3200	0.291	3,970	0.096	552	0.150										
541	3400	0.328	4,220	0.115	791	0.180										
575	3600	0.368	4,470	0.135	1,010	0 205										
605	3800	0 410	4,710	0 160	1,220	0.230	514	0.265								
637	4000	0 455	4,960	0.190	1,430	0 260	791	0.300								
670	4200	0.501	5,210	0.215	1,660	0.285	1,010	0.340	264	0.36						
700	4400	0.550	5,460	0.250	1,860	0.315	1,230	0.380	608	0 41						
734	4600	0.601	5,710	0.285	2,100	0 345	1,440	0.420	895	0.46						
765	4800	0.655	5,950	0 325	2,340	0 38	1,660	0.455	1,120	0.50						
796	5000	0.710	6,200	0 370	2,620	0 42	1,870	0.495	1,300	0.55						
836	5250	0.784	6,500	0 425	3,000	0 47	2,140	0 55	1,570	0.62	528	0 72				
876	5500	0.859	6,810	0 49	3,420	0 53	2,420	0 60	1,850	0 63	917	0.79				
916	5750	0.940	7,130	0.56	3,830	0.60	2,710	0.66	2,140	0 75	1,210	0.88				
956	6000	1.02	7,450	0 63	4,300	0.67	3,020	0 73	2,410	0.82	1,470	0 96	490	1.10		
996	6250	1.11	7,750	0.72	4,750	0.74	3,380	0.80	2,650	0 89	1,710	1 05	905	1.20		
1035	6500	1.20	8,070	0.80	5,190	0.82	3,750	0.88	2,960	0.97	2,000	1.15	1,250	1.30		
1074	6750	1 30	8,390	0.90			4,200	0 97	3,250	1.05	2,290	1 25	1,530	1.40		
1114	7000	1.39	8,700	1 00			4,600	1.05	3,560	1.15	2,540	1.35	1,760	1.50		
1194	7500	1.60	9,300	1 25			5,510	1.3	4,340	1 35	3,080	1.55	2,310	1 75	848	2.05
1273	8000	1.82	9,920	1.50					5,170	1 6	3,620	1.75	2,860	2.05	1,580	2.35
1353	8500	2.05	10,600	1.80					6,000	1.9	4,270	2.05	3,420	2 30	2,080	2.70
1433	9000	2.30	11,200	2.15					7,060	2 2	5,000	2.35	3,940	2.60	2,630	3.10
1512	9500	2.56	11,800	2.50							5,830	2.7	4,510	2.90	3,170	3.55
1592	10000	2.84	12,400	2 95							6,700	3.1	5,250	3.35	3,770	4

30" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
280	2200	0.137	4,270	0.050												
306	2400	0.164	4,600	0.063												
330	2600	0.192	5,050	0.081												
356	2800	0.223	5,440	0 100												
382	3000	0.256	5,820	0.125	383	0 210										
408	3200	0.291	6,210	0.150	867	0.235										
433	3400	0.328	6,600	0 180	1,240	0 280										
459	3600	0.363	7,000	0 215	1,580	0 325										
485	3800	0.410	7,370	0 250	1,910	0 360	803	0 42								
510	4000	0.455	7,760	0.295	2,240	0.405	1,240	0 47								
535	4200	0.501	8,150	0 340	2,600	0 45	1,590	0 53	413	0 56						
560	4400	0 550	8,550	0 390	2,920	0.49	1,920	0 59	950	0 64						
585	4600	0.601	8,930	0.445	3,280	0 54	2,260	0 66	1,400	0 72						
611	4800	0.655	9,310	0 51	3,650	0.59	2,590	0.71	1,740	0 79						
636	5000	0.710	9,700	0 57	4,100	0.66	2,920	0 77	2,040	0 86						
669	5250	0.784	10,200	0 66	4,700	0.74	3,350	0 85	2,450	0 96	825	1 15				
700	5500	0.859	10,700	0 76	5,350	0.82	3,780	0 94	2,890	1.05	1,430	1 25				
732	5750	0.94	11,200	0 87	5,990	0.93	4,240	1 05	3,340	1.15	1,900	1.35				
765	6000	1.02	11,600	0 99	6,740	1.05	4,710	1 15	3,770	1.30	2,300	1.50	766	1 75		
796	6250	1.11	12,100	1 10	7,440	1.15	5,270	1 25	4,150	1.40	2,670	1.65	1,420	1 85		
828	6500	1.20	12,600	1.25	8,110	1.30	5,880	1.40	4,630	1.50	3,130	1.80	1,950	2.00		
860	6750	1.30	13,100	1 40			6,570	1 50	5,090	1.65	3,590	1 95	2,390	2.15		
891	7000	1 39	13,600	1.55			7,200	1 05	5,580	1 80	3,980	2.10	2,750	2 35		
955	7500	1 60	14,500	1 95			8,630	2	6,780	2.10	4,830	2 45	3,610	2.75	1,330	3.20
1020	8000	1.82	15,500	2 35					8,100	2 50	5,660	2 80	4,480	3 20	2,480	3 70
1081	8500	2.05	16,500	2.80					9,480	2 05	6,690	3.20	5,350	3 60	3,260	4.25
1147	9000	2 30	17,500	3 35					11,100	3 45	7,830	3.65	6,150	4.10	4,110	4.85
1210	9500	2 56	18,400	3 9							9,100	4.20	7,050	4.55	4,950	5.5
1272	10000	2 84	19,400	4.6							10,500	4.85	8,200	5 2	5,900	6.3

36" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
233	2200	0.137	6,150	0.070												
255	2400	0 164	6,700	0 091												
276	2600	0.192	7,270	0.115												
297	2800	0 223	7,820	0.145												
318	3000	0.256	8,390	0.180	551	0 300										
340	3200	0.291	8,950	0.215	1,250	0 335										
361	3400	0.328	9,500	0.260	1,780	0 400										
382	3600	0.368	10,100	0 310	2,280	0.465										
403	3800	0.410	10,600	0.360	2,740	0 52	1,160	0 60								
425	4000	0 455	11,200	0.425	3,230	0.58	1,780	0 68								
445	4200	0 501	11,700	0.49	3,740	0.65	2,280	0 76	594	0.81						
467	4400	0 550	12,300	0 56	4,200	0.71	2,760	0.85	1,370	0 93						
488	4600	0.601	12,900	0 64	4,720	0.77	3,260	0.95	2,020	1.05						
510	4800	0.655	13,400	0.73	5,260	0.85	3,740	1.00	2,510	1.15						
531	5000	0.710	14,100	0 83	5,900	0 94	4,210	1 10	2,940	1.25						
557	5250	0.784	14,700	0.95	6,690	1.05	4,830	1 25	3,530	1.40	1,190	1.65				
584	5500	0.859	15,400	1.10	7,710	1 20	5,450	1.35	4,150	1.55	2,070	1.80				
610	5750	0.94	16,100	1 25	8,630	1.35	6,100	1.50	4,810	1 70	2,730	1.95				
637	6000	1.02	16,800	1.45	9,690	1.50	6,800	1.65	5,430	1 85	3,310	2 15	1,100	2.50		
663	6250	1.11	17,500	1 60	10,700	1 65	7,580	1.80	5,970	2 00	3,850	2 35	2,040	2.65		
690	6500	1.20	18,200	1.80	11,700	1.85	8,460	2 00	6,670	2.20	4,510	2.60	2,810	2.90		
716	6750	1.30	18,900	2 00			9,450	2 20	7,320	2.40	5,160	2.80	3,440	3.10		
743	7000	1.39	19,600	2.25			10,400	2 35	8,030	2 55	5,730	3 05	3,960	3 40		
796	7500	1.60	20,900	2.80			12,400	2 9	9,760	3 05	6,950	3 5	5,200	3 95	1,910	4.6
849	8000	1.82	22,400	3.40					11,700	3 60	8,150	4 0	6,450	4.6	3,560	5.3
902	8500	2 05	23,800	4.05					13,700	4.25	9,610	4 6	7,700	5.2	4,690	6.1
955	9000	2 30	25,200	4.8					15,900	5	11,300	5.3	8,850	5.9	5,920	7
1008	9500	2 56	26,500	5 6							13,100	6	10,200	6.5	7,140	8
1060	10000	2 84	28,900	6.6							15,100	7	11,800	7.5	8,490	9

42" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
200	2200	0.137	8,360	0.095												
218	2400	0.164	9,120	0.125												
236	2600	0.192	9,870	0.160												
255	2800	0.223	10,600	0.200												
273	3000	0.256	11,400	0.245	750	0.410										
291	3200	0.291	12,200	0.295	1,600	0.455										
309	3400	0.328	12,900	0.35	2,430	0.55										
329	3600	0.368	13,700	0.42	3,100	0.63										
346	3800	0.410	14,400	0.49	3,730	0.71	1,570	0.82								
364	4000	0.455	15,200	0.58	4,390	0.79	2,430	0.92								
382	4200	0.501	16,000	0.67	5,090	0.88	3,110	1.05	808	1.10						
400	4400	0.550	16,800	0.77	5,710	0.96	3,750	1.15	1,860	1.25						
418	4600	0.601	17,500	0.87	6,420	1.05	4,430	1.30	2,740	1.40						
436	4800	0.655	18,200	0.99	7,160	1.15	5,080	1.40	3,420	1.55						
455	5000	0.710	19,000	1.15	8,040	1.30	5,720	1.50	3,990	1.70						
478	5250	0.784	19,900	1.30	9,200	1.45	6,570	1.70	4,800	1.90	1,620	2.20				
500	5500	0.859	20,900	1.50	10,500	1.60	7,410	1.85	5,660	2.10	2,810	2.45				
523	5750	0.940	21,800	1.70	11,700	1.85	8,300	2.00	6,550	2.30	3,720	2.70				
545	6000	1.02	22,800	1.95	13,200	2.05	9,240	2.25	7,390	2.50	4,500	2.95	1,500	3.40		
569	6250	1.11	23,800	2.20	14,600	2.25	10,300	2.45	8,120	2.75	5,240	3.20	2,770	3.65		
591	6500	1.20	24,700	2.45	15,900	2.5	11,500	2.70	9,070	3.00	6,140	3.55	3,820	3.95		
614	6750	1.30	25,700	2.75			12,900	3.00	9,950	3.25	7,030	3.85	4,680	4.25		
636	7000	1.39	26,700	3.1			14,100	3.20	10,900	3.50	7,800	4.15	5,390	4.6		
682	7500	1.60	28,500	3.8			16,900	3.95	13,300	4.15	9,450	4.8	7,070	5.4	2,600	6.3
727	8000	1.82	30,400	4.6					15,900	4.85	11,100	5.4	8,780	6.2	4,850	7.2
773	8500	2.05	32,300	5.5					18,600	5.8	13,100	6.3	10,500	7.1	6,380	8.3
818	9000	2.30	34,300	6.6					21,700	6.8	15,300	7.2	12,100	8.0	8,050	9.5
864	9500	2.56	36,100	7.7							17,900	8.2	13,800	8.9	9,700	11
910	10000	2.84	38,000	9							20,500	9.5	16,100	10.5	11,500	12

48" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
175	2200	0.137	11,000	0.125												
191	2400	0.164	11,800	0.160												
207	2600	0.192	12,900	0.205												
223	2800	0.223	13,900	0.260												
239	3000	0.256	14,900	0.315	979	0.54										
255	3200	0.291	15,900	0.385	2,210	0.60										
271	3400	0.328	16,900	0.46	3,160	0.72										
287	3600	0.368	17,900	0.55	4,040	0.83										
302	3800	0.410	18,800	0.64	4,860	0.93	2,050	1.05								
319	4000	0.455	19,800	0.75	5,720	1.05	3,160	1.20								
334	4200	0.501	20,800	0.87	6,640	1.15	4,050	1.35	1,050	1.45						
350	4400	0.550	21,800	1.00	7,450	1.25	4,900	1.55	2,430	1.65						
366	4600	0.601	22,800	1.15	8,370	1.40	5,770	1.70	3,580	1.85						
382	4800	0.655	23,800	1.30	9,330	1.55	6,620	1.80	4,450	2.00						
398	5000	0.710	24,800	1.45	10,500	1.70	7,450	2.00	5,200	2.20						
418	5250	0.784	26,000	1.70	11,850	1.90	8,560	2.20	6,260	2.45	2,110	2.90				
438	5500	0.859	27,200	1.95	13,700	2.10	9,660	2.40	7,380	2.70	3,660	3.25				
458	5750	0.940	28,500	2.25	15,300	2.45	10,800	2.65	8,540	3.00	4,850	3.50				
478	6000	1.02	29,800	2.55	17,200	2.7	12,100	2.90	9,640	3.30	5,870	3.85	1,960	4.40		
498	6250	1.11	31,000	2.85	19,000	3.0	13,500	3.20	10,600	3.55	6,830	4.20	3,620	4.75		
517	6500	1.20	32,200	3.20	20,700	3.3	15,000	3.50	11,800	3.90	8,000	4.65	4,990	5.1		
537	6750	1.30	33,500	3.60			16,800	3.90	13,000	4.20	9,160	5.0	6,100	5.5		
557	7000	1.39	34,800	4.00			18,400	4.15	14,800	4.55	10,200	5.4	7,030	6.0		
597	7500	1.60	37,100	4.95			22,000	5.2	17,300	5.4	12,300	6.2	9,220	7.0	3,390	8.2
637	8000	1.82	39,600	6.0					20,700	6.4	14,500	7.1	11,500	8.1	6,320	9.4
677	8500	2.05	42,100	7.2					24,200	7.5	17,100	8.2	13,700	9.3	8,310	11.0
717	9000	2.30	44,600	8.5					28,200	8.8	20,000	9.4	15,700	10.5	10,500	12.5
756	9500	2.56	47,000	10							23,300	10.5	18,000	11.5	12,700	14
796	10000	2.84	49,500	12							26,300	12.5	21,000	13.5	15,100	16

54" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
			Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
156	2200	0.137	13,800	0 155												
170	2400	0.164	15,100	0 205												
184	2600	0.192	16,300	0.260												
198	2800	0.223	17,600	0 330												
212	3000	0.256	18,900	0 400	1,240	0 68										
226	3200	0 291	20,100	0 485	2,800	0.76										
240	3400	0.328	21,400	0 58	4,000	0 90										
255	3600	0 368	22,600	0 69	5,110	1 05										
269	3800	0.410	23,900	0 81	6,160	1 15	2,600	1 35								
283	4000	0 455	25,100	0 95	7,250	1 30	4,000	1 55								
297	4200	0.501	26,400	1 10	8,400	1 45	5,140	1 70	1,340	1.80						
311	4400	0 550	27,700	1 25	9,440	1.60	6,200	1.90	3,080	2 10						
325	4600	0 601	28,900	1 45	10,600	1 75	7,310	2.10	4,530	2.30						
340	4800	0 655	30,200	1 65	11,800	1 90	8,390	2 30	5,650	2 55						
354	5000	0 710	31,400	1 85	13,300	2 10	9,450	2 50	6,600	2 80						
372	5250	0 784	32,900	2 15	15,200	2 40	10,800	2 75	7,930	3 10	2,670	3 65				
389	5500	0 859	34,500	2 45	17,300	2 65	12,200	3 05	9,350	3 45	4,640	4 00				
407	5750	0 94	36,100	2 85	19,400	3 00	13,700	3 35	10,800	3.80	6,140	4.45				
425	6000	1 02	37,700	3 20	21,800	3 40	15,300	3 70	12,200	4 15	7,440	4.85	2,480	5.6		
442	6250	1 11	39,300	3.60	24,100	3 75	17,100	4 05	13,400	4 50	8,650	5 3	4,580	6 0		
460	6500	1.20	40,900	4.05	26,300	4.15	19,000	4.45	15,000	4 95	10,100	5 9	6,310	6 5		
478	6750	1 30	42,500	4 55			21,300	4.95	16,500	5 3	11,600	6 3	7,730	7.0		
495	7000	1.39	44,000	5 1			23,300	5 3	18,000	5 8	12,900	6.8	8,900	7 6		
530	7500	1 60	47,000	6.2			27,900	6 5	21,900	6 8	15,600	7 9	11,700	8 9	4,290	10.5
566	8000	1 82	50,200	7.6					26,200	8 0	18,300	9 0	14,500	10 5	8,000	12
601	8500	2.05	53,400	9.1					30,700	9 5	21,600	10.5	17,300	11 5	10,500	14
637	9000	2 30	56,600	11 0					35,800	11	25,300	12.0	19,900	13 0	13,300	16
672	9500	2 56	59,600	12 7							29,500	13.5	22,800	14.5	16,000	18
708	10000	2.84	62,800	15							33,900	15 5	26,500	17	19,100	20

60" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
140	2200	0 137	17,100	0 195												
153	2400	0 164	18,600	0 255												
166	2600	0.192	20,200	0.325												
178	2800	0.223	21,700	0 405												
191	3000	0 256	23,300	0 495	1,530	0.84										
204	3200	0.291	24,900	0 600	3,460	0 93										
216	3400	0.328	26,500	0 700	4,950	1 10										
229	3600	0 368	28,000	0 852	6,320	1 30										
242	3800	0.410	29,500	1 00	7,620	1 45	3,210	1 65								
255	4000	0.455	31,000	1 20	8,950	1 60	4,950	1.90								
268	4200	0 501	32,600	1 35	10,400	1 80	6,350	2.10	1,650	2 25						
280	4400	0 550	34,200	1 55	11,700	1.95	7,660	2.35	3,800	2 55						
293	4600	0.601	35,700	1 80	13,100	2.15	9,040	2.60	5,600	2 85						
306	4800	0.655	37,200	2 00	14,600	2 35	10,400	2.85	6,980	3.15						
319	5000	0.710	38,800	2 30	16,400	2 60	11,700	3 10	8,150	3.45						
334	5250	0.784	40,700	2 65	18,800	2 95	13,400	3 40	9,800	3.85	3,300	4 5				
350	5500	0 859	42,600	3 05	21,400	3 30	15,100	3.75	11,600	4 25	5,740	5 0				
366	5750	0.94	44,600	3 5	24,000	3.75	16,900	4.10	13,400	4.65	7,580	5.5				
382	6000	1.02	46,500	3 0	26,900	4.20	18,900	4 55	15,100	5.1	9,190	6.0	3,060	6.9		
398	6250	1.11	48,500	4.5	29,700	4.65	21,100	5 0	16,600	5 6	10,700	6 6	5,650	7 4		
414	6500	1.20	50,500	5 0	32,400	5 1	23,500	5 5	18,500	6.1	12,500	7 3	7,800	8.0		
430	6750	1.30	52,500	5 6			26,300	6 1	20,300	6 6	14,300	7.8	9,550	8 6		
446	7000	1.39	56,400	6.3			28,800	6.5	22,300	7 1	15,900	8 5	11,000	9 4		
478	7500	1.60	58,100	7.7			34,500	8.1	27,100	8 4	19,300	9 8	14,400	11.0	5,300	13.0
510	8000	1.82	62,000	9 4					32,400	9 9	22,600	11 0	17,900	12.5	9,900	15.0
541	8500	2 05	66,000	11 0					37,900	12	26,700	13 0	21,400	14.5	13,000	17.0
573	9000	2 30	70,000	13.5					44,200	14	31,300	14 5	24,600	16.5	16,500	19.5
605	9500	2.56	73,600	15 5							36,400	17 0	28,200	18	19,800	22
636	10000	2 84	77,600	18.5							41,900	19.5	32,800	21	23,600	25

66" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
127	2200	0.137	20,600	0.235												
139	2400	0.164	22,500	0.305												
150	2600	0.192	24,400	0.39												
162	2800	0.223	26,300	0.49												
174	3000	0.256	28,200	0.60	1,850	1.00										
185	3200	0.291	30,000	0.72	4,180	1.15										
197	3400	0.328	31,900	0.87	5,990	1.35										
208	3600	0.368	33,800	1.05	7,650	1.55										
220	3800	0.410	35,600	1.20	9,210	1.75	3,880	2.00								
231	4000	0.455	37,500	1.40	10,800	1.95	5,990	2.30								
243	4200	0.501	39,400	1.65	12,600	2.15	7,670	2.55	2,000	2.70						
255	4400	0.550	41,300	1.90	14,100	2.35	9,260	2.85	4,600	3.10						
266	4600	0.601	43,100	2.15	15,800	2.60	10,900	3.15	6,760	3.45						
278	4800	0.655	45,000	2.45	17,700	2.85	12,500	3.45	8,440	3.80						
289	5000	0.710	46,900	2.8	19,800	3.15	14,100	3.75	9,850	4.15						
304	5250	0.784	49,100	3.2	22,700	3.55	16,200	4.15	11,800	4.65	3,990	5.5				
318	5500	0.859	51,500	3.7	25,900	4.0	18,300	4.55	14,000	5.2	6,940	6.0				
333	5750	0.940	54,000	4.2	29,000	4.5	20,500	5.0	16,200	5.7	9,170	6.6				
347	6000	1.02	56,300	4.8	32,600	5.1	22,800	5.5	18,200	6.2	11,100	7.3	3,710	8.4		
361	6250	1.11	58,600	5.4	36,000	5.6	25,500	6.1	20,000	6.7	12,900	8.0	6,840	9.0		
375	6500	1.20	61,000	6.1	39,200	6.2	28,400	6.7	22,400	7.4	15,100	8.8	9,440	9.7		
390	6750	1.30	63,400	6.8			31,800	7.4	24,600	8.0	17,300	9.5	11,600	10.5		
405	7000	1.39	65,800	7.6			34,800	7.9	27,000	8.6	19,200	10.0	13,300	11.5		
434	7500	1.60	70,300	9.3			41,700	9.8	32,800	10.0	23,300	12.0	17,500	13.5	6,410	15.5
462	8000	1.82	75,000	11.5					39,100	12.0	27,400	13.5	21,700	15.5	12,000	18.0
491	8500	2.05	79,800	13.5					45,900	14.0	32,300	15.5	25,900	17.5	15,800	20.5
520	9000	2.30	84,500	16					53,400	16.5	37,900	17.5	29,800	19.5	19,900	23.5
549	9500	2.56	89,000	19							44,000	20.5	34,100	22	24,000	27
577	10000	2.84	93,800	22							50,000	23.5	39,700	25	28,500	30

72" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
117	2200	0.137	24,600	0.280												
127	2400	0.164	26,800	0.365												
138	2600	0.192	29,000	0.465												
148	2800	0.223	31,300	0.57												
159	3000	0.256	33,500	0.71	2,200	1.20										
170	3200	0.291	35,800	0.86	4,970	1.35										
180	3400	0.328	38,000	1.05	7,120	1.60										
191	3600	0.368	40,200	1.25	9,100	1.85										
202	3800	0.410	42,400	1.45	11,000	2.10	4,610	2.10								
212	4000	0.455	44,600	1.70	12,900	2.30	7,110	2.70								
223	4200	0.501	46,900	1.95	14,900	2.60	9,120	3.05	2,370	3.2						
233	4400	0.550	49,100	2.25	16,800	2.80	11,000	3.40	5,400	3.7						
244	4600	0.601	51,400	2.55	18,900	3.10	13,000	3.80	8,050	4.1						
254	4800	0.655	53,500	2.9	21,000	3.40	14,900	4.10	10,000	4.5						
265	5000	0.710	55,800	3.3	23,600	3.75	16,800	4.45	11,700	4.6						
278	5250	0.784	58,500	3.8	27,000	4.25	19,300	4.9	14,100	5.5	4,750	6.5				
292	5500	0.859	61,300	4.4	30,800	4.75	21,800	5.4	16,600	6.1	8,250	7.3				
305	5750	0.94	64,100	5.0	34,500	5.4	24,400	5.9	19,200	6.7	10,900	7.9				
318	6000	1.02	67,000	5.7	38,700	6.0	27,100	6.6	21,700	7.4	13,200	8.6	4,400	10.0		
331	6250	1.11	69,800	6.4	42,800	6.7	30,300	7.2	23,800	8.1	15,400	9.5	8,140	10.5		
345	6500	1.20	72,600	7.2	46,600	7.4	33,800	7.9	26,600	8.8	18,000	10.5	11,200	11.5		
358	6750	1.30	75,500	8.1			37,800	8.8	29,200	9.5	20,600	11.5	13,700	12.5		
371	7000	1.39	78,300	9.0			41,400	9.4	32,000	10.5	22,900	12.0	15,800	13.5		
398	7500	1.60	83,600	11.0			49,500	11.5	39,000	12.0	27,700	14.0	20,800	16.0	7,620	18.5
425	8000	1.82	89,300	13.5					46,500	14.5	32,600	16.0	25,800	18.5	14,200	21.0
450	8500	2.05	95,000	16.0					54,500	17	38,400	18.5	30,700	21.0	18,700	24.5
476	9000	2.30	101,000	19.5					63,500	20	45,000	21	35,400	23.5	23,700	28
504	9500	2.56	106,000	22.5							52,400	24	40,500	26	28,500	32
530	10000	2.84	112,000	26							60,100	28	47,100	30	33,900	36

84" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
100	2200	0.137	33,400	0.380												
109	2400	0.164	36,500	0.495												
118	2600	0.192	39,600	0.63												
127	2800	0.223	42,600	0.79												
136	3000	0.256	45,600	0.97	3,000	1.65										
145	3200	0.291	48,700	1.15	6,780	1.85										
155	3400	0.328	51,700	1.40	9,700	2.20										
164	3600	0.368	54,800	1.65	12,400	2.55										
173	3800	0.410	57,700	1.95	14,900	2.85	6,300	3.25								
182	4000	0.455	60,900	2.30	17,600	3.15	9,700	3.70								
191	4200	0.501	63,900	2.65	20,400	3.50	12,400	4.15	3,240	4.1						
200	4400	0.550	67,000	3.05	22,900	3.85	15,000	4.65	7,450	5.0						
209	4600	0.601	70,000	3.50	25,700	4.20	17,700	5.1	11,900	5.6						
218	4800	0.655	73,000	3.95	28,600	4.65	20,300	5.6	13,700	6.2						
228	5000	0.710	76,000	4.5	32,200	5.1	22,900	6.1	16,000	6.8						
239	5250	0.784	79,700	5.2	36,800	5.8	26,300	6.7	19,200	7.6	6,470	8.9				
250	5500	0.859	83,500	6.0	42,000	6.5	29,700	7.3	22,600	8.4	11,200	9.9				
262	5750	0.940	87,500	6.3	47,000	7.3	33,200	8.1	26,200	9.2	14,900	10.5				
272	6000	1.02	91,300	7.8	52,700	8.2	37,000	8.9	29,600	10.0	18,000	12.0	6,000	13.5		
284	6250	1.11	95,100	8.8	58,300	9.1	41,300	9.9	32,500	11.0	20,900	13.0	11,100	14.5		
296	6500	1.20	99,000	9.8	63,600	10	46,000	11.0	36,300	12.0	24,500	14.0	15,300	16.0		
307	6750	1.30	103,000	11.0			51,500	12.0	39,800	13.0	28,100	15.5	18,700	17.0		
318	7000	1.39	107,000	12.5			56,400	12.5	43,700	14.0	31,200	16.5	21,600	18.5		
341	7500	1.60	111,000	15.0			67,600	16	53,100	16.5	37,800	19	28,300	21.5	10,400	25
361	8000	1.82	122,000	18.5					63,500	19.5	44,400	22	35,100	25	19,400	29
386	8500	2.05	129,000	22					74,300	23	52,400	25	41,900	28	25,500	33
409	9000	2.30	137,000	26					86,600	27	61,400	29	48,200	32	32,200	38
432	9500	2.56	144,000	31							71,400	33	55,300	36	38,800	43
455	10000	2.84	152,000	36							82,000	38	64,300	41	46,200	49

96" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
88	2200	0.137	43,600	0.50												
96	2400	0.164	47,600	0.65												
103	2600	0.192	51,600	0.83												
111	2800	0.223	55,600	1.05												
119	3000	0.256	59,500	1.25	3,920	2.15										
127	3200	0.291	63,500	1.55	8,850	2.40										
135	3400	0.328	67,500	1.85	12,700	2.85										
143	3600	0.368	71,500	2.20	16,200	3.30										
151	3800	0.410	75,400	2.60	19,500	3.70	8,210	4.25								
159	4000	0.455	79,500	3.00	22,900	4.15	12,700	4.85								
167	4200	0.501	83,500	3.50	26,600	4.6	16,300	5.4	4,220	5.7						
175	4400	0.550	87,500	4.00	29,800	5.0	19,600	6.1	9,730	6.6						
183	4600	0.601	91,400	4.55	33,500	5.5	23,100	6.7	14,300	7.3						
191	4800	0.655	95,300	5.2	37,400	6.1	26,500	7.3	17,900	8.1						
198	5000	0.710	99,300	5.9	42,000	6.7	29,900	7.9	20,900	8.8						
209	5250	0.784	104,000	6.8	48,000	7.5	34,300	8.7	25,000	9.9	8,450	11.5				
218	5500	0.859	109,000	7.8	54,800	8.4	38,700	9.6	29,600	11.0	14,700	13.0				
228	5750	0.940	114,000	9.0	61,200	9.6	43,400	10.5	34,200	12.0	19,400	14.0				
239	6000	1.02	119,000	10.0	68,900	10.5	48,300	11.5	38,600	13.0	23,500	15.5	7,840	17.5		
248	6250	1.11	124,000	11.5	76,000	12	53,900	13.0	42,400	14.5	27,300	17.0	14,500	19.0		
259	6500	1.20	129,000	13.0	83,000	13	60,000	14.0	47,400	15.5	32,000	18.5	20,000	20.5		
268	6750	1.30	134,000	14.5			67,200	15.5	52,000	17.0	36,700	20.0	24,500	22		
278	7000	1.39	139,000	16			73,600	16.5	57,000	18.5	40,600	21.5	28,100	24		
298	7500	1.60	149,000	20			88,200	20.5	69,400	21.5	49,400	25	33,900	28	13,600	33
318	8000	1.82	159,000	24					82,800	25	58,000	28	45,900	33	25,300	38
338	8500	2.05	169,000	29					97,000	30	68,400	33	54,600	37	33,300	44
350	9000	2.30	179,000	34					113,000	35	80,000	37	63,000	42	42,100	50
378	9500	2.56	188,000	40							93,200	43	72,100	46	50,700	56
397	10000	2.84	198,000	47							107,000	50	84,000	54	60,400	64

108" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.	Volume C.F.M.	H. P.
			Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
78	2200	0.137	55,300	0.63												
85	2400	0.164	60,300	0.82												
92	2600	0.192	65,400	1.05												
99	2800	0.223	70,400	1.30												
106	3000	0.256	75,500	1.60	4,960	2.7										
113	3200	0.291	80,500	1.95	11,200	3.0										
120	3400	0.328	85,500	2.35	16,000	3.6										
128	3600	0.368	90,500	2.75	20,500	4.2										
135	3800	0.410	95,500	3.25	24,700	4.7	10,400	5.4								
142	4000	0.455	100,000	3.8	29,000	5.2	16,000	6.1								
149	4200	0.501	106,000	4.4	33,600	5.8	20,500	6.8	5,350	7.3						
156	4400	0.550	111,000	5.1	37,800	6.3	24,800	7.7	12,300	8.3						
163	4600	0.601	116,000	5.8	42,500	7.0	29,200	8.5	18,100	9.3						
170	4800	0.655	121,000	6.6	47,300	7.7	33,600	9.2	22,600	10.0						
177	5000	0.710	126,000	7.4	53,100	8.5	37,900	10.0	26,400	11.0						
186	5250	0.784	132,000	8.6	60,800	9.5	43,400	11.0	31,700	12.5	10,700	14.5				
195	5500	0.859	138,000	9.9	69,400	10.5	49,000	12.0	37,400	14.0	18,600	16.0				
201	5750	0.94	144,000	11.5	77,500	12.0	54,900	13.5	43,300	15.0	24,600	18.0				
213	6000	1.02	151,000	13.0	87,100	13.5	61,000	15.0	48,900	16.5	29,800	19.5	9,930	22.5		
222	6250	1.11	157,000	14.5	96,300	15.0	68,300	16.5	53,600	18.0	34,700	21.5	18,300	24		
230	6500	1.20	164,000	16.5	105,000	16.5	76,000	18.0	60,000	19.5	40,500	23.5	25,200	26		
239	6750	1.30	170,000	18.0			85,000	19.5	65,900	21.5	46,500	25	30,900	28		
248	7000	1.39	176,000	20.5			93,200	21	72,200	23	51,500	27	35,600	31		
266	7500	1.60	188,000	25			112,000	26	87,800	27	62,500	32	46,800	36	17,200	42
283	8000	1.82	201,000	30					105,000	32	73,400	36	58,000	41	32,100	48
301	8500	2.05	214,000	36					123,000	38	86,500	41	69,200	47	42,200	56
319	9000	2.30	227,000	43					143,000	45	101,000	47	79,600	52	53,300	64
336	9500	2.56	238,000	50							118,000	54	91,300	58	64,100	72
354	10000	2.84	251,000	60							136,000	62	106,000	68	76,500	80

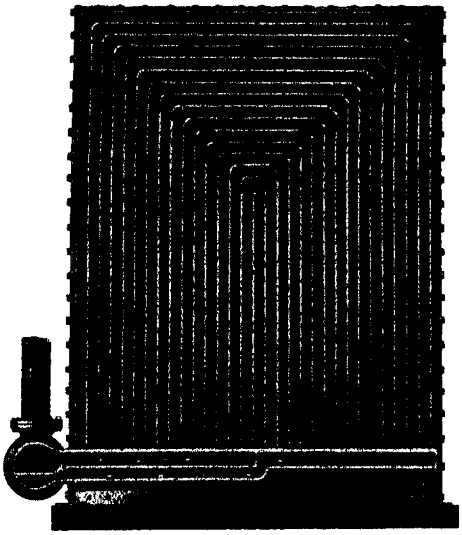
120" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

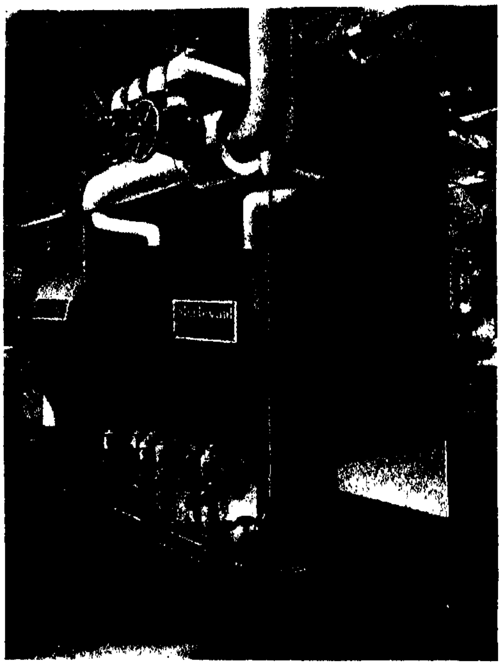
R.P.M.	Tip Speed F.P.M.	S.N.D. in inches	Static Pressure Free Discharge		Static Pressure ¼" Water .145 ozs. per sq. inch		Static Pressure ⅜" Water .217 ozs. per sq. inch		Static Pressure ½" Water .289 ozs. per sq. inch		Static Pressure ¾" Water .434 ozs. per sq. inch		Static Pressure 1" Water .578 ozs. per sq. inch		Static Pressure 1½" Water .878 ozs. per sq. inch	
70	2200	0.137	68,200	0.77												
76	2400	0.164	74,500	1.00												
83	2600	0.192	80,700	1.30												
89	2800	0.223	86,700	1.60												
96	3000	0.256	93,200	2.00	6,130	3.3										
102	3200	0.291	99,400	2.40	13,800	3.7										
108	3400	0.328	106,000	2.85	19,800	4.4										
115	3600	0.368	112,000	3.4	25,300	5.2										
121	3800	0.410	118,000	4.0	30,500	5.8	12,800	6.7								
127	4000	0.455	124,000	4.7	35,800	6.4	19,800	7.5								
134	4200	0.501	131,000	5.4	41,500	7.2	25,400	8.5	6,600	9.0						
140	4400	0.550	137,000	6.2	46,600	7.8	30,600	9.5	15,200	10.5						
146	4600	0.601	143,000	7.0	52,400	8.6	36,100	10.5	22,400	11.5						
153	4800	0.655	149,000	8.1	58,500	9.5	41,500	11.5	27,900	12.5						
159	5000	0.710	155,000	9.2	65,600	10.5	46,600	12.5	32,600	14.0						
167	5250	0.784	163,000	10.5	75,000	11.5	53,600	13.5	39,100	15.5	13,200	18				
175	5500	0.859	171,000	12.0	85,500	13.0	60,500	15.0	46,100	17.0	22,900	20				
183	5750	0.94	178,000	14.0	95,900	15.0	67,700	16.5	53,400	18.5	30,300	22				
191	6000	1.02	186,000	16.0	108,000	16.5	75,500	18.0	60,300	20.5	36,800	24	12,300	28		
199	6250	1.11	194,000	18.0	119,000	18.5	84,300	20.0	66,200	22.5	42,700	26	22,600	30		
207	6500	1.20	202,000	20.0	130,000	20.5	94,000	22.0	74,000	24.5	50,100	29	31,200	32		
215	6750	1.30	210,000	22.5			105,000	24.5	81,000	26	57,400	31	38,200	35		
223	7000	1.39	218,000	25			115,000	26	89,000	29	63,600	34	44,000	38		
239	7500	1.60	233,000	30			138,000	32	108,000	34	77,100	39	57,600	44	21,200	52
255	8000	1.82	248,000	37					130,000	40	90,500	44	71,600	50	39,600	60
271	8500	2.05	264,000	44					152,000	47	107,000	52	85,500	58	52,000	68
286	9000	2.30	280,000	52					177,000	56	125,000	58	98,400	66	65,800	78
302	9500	2.56	295,000	62							146,000	68	113,000	72	79,200	88
318	10000	2.84	310,000	74							167,000	78	131,000	84	94,200	100

STURTEVANT HEATERS

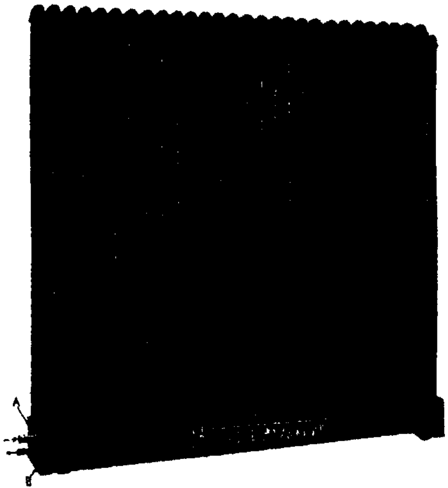
Dimensions, Performance Tables



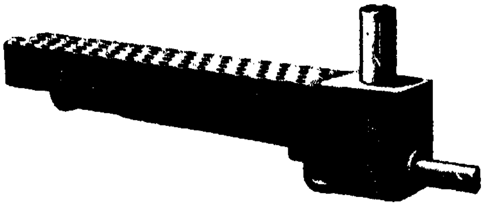
Sturtevant Heater — Regular Type



Sturtevant Fan and Mitre Type
Heater installed



Sturtevant Heater — Return Bend Type



Base of Sturtevant London Type Heater — This type
provides for control of individual sections

STURTEVANT HEATER

SPECIFICATIONS

There shall be furnished a Sturtevant Pipe Coil Heater of the........Type, having......lineal feet of......inches (1 or $1\frac{1}{4}$-inch) pipe and ....square feet of free area. Heater shall be composed of ....four row sections and....... two row section. All sections shall have a nominal length of........feet, and nominal height of pipes shall be........feet........ inches.

A sheet steel casing of........gauge shall be furnished, and this shall be suitably braced and stiffened.

Heaters

APPROXIMATE WEIGHTS

HEATERS WITH CORRUGATED BASES

REGULAR, LONDON AND EXHAUST SECTIONS

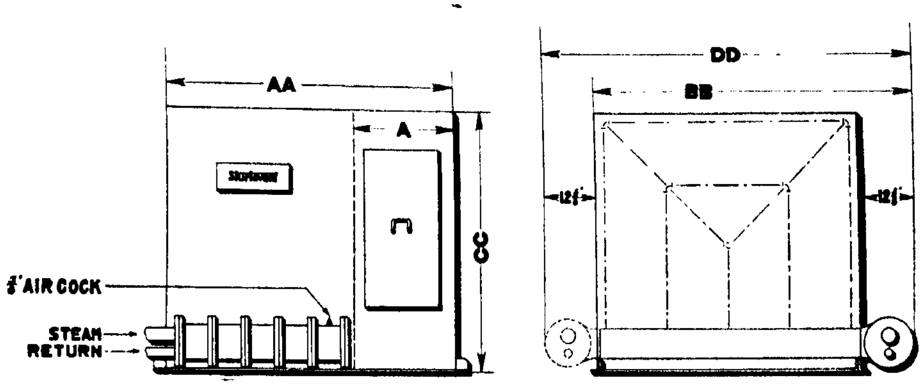
Size of Section Feet	Height of Pipe Feet	Weight of Sections, Pounds	
		Four Row	Two Row
3	5	833	453
3	6	948	510
4	5	1088	579
4	6	1242	656
4	7	1400	733
5	6	1570	835
5	7	1774	932
5	8	1967	1028
6	6	1884	970
6	7	2118	1087
6	8	2352	1204
6	9	2586	1310

Mitre Type Heaters

Nominal Dimensions			Weight of Sections, Pounds	
Length of Base, Feet	Length of Pipes, Feet	Height of Pipes, Feet	Four Row	Two Row
3	4	5	1020	515
4	4	7	1530	760
4	4	8	1680	840
5	5	8	2070	1090
5	5	10	2450	1275
6	6	8	2520	1320
6	6	10	2970	1550
6	6	12	3450	1785
6	6	10		1260
6	6	12		1435
7	7	10		1505
7	7	12		1710

Sturtevant Heaters—Regular Type

Dimensions in Inches



Size of Nominal length of base	Section Nom'l Ht. Pipes ft. in.	A Single	A D'ble	AA	BB Single	CC	DD Double Group
3 ft.	3—0	21	24	AA=4⅝"+A+4.25N_2+7.75N_4 N_2=Number of Two Row Sections N_4=Number of Four Row Sections	50⅞	48	100
	3—6	21	24			54	
	4—0	21	24			60	
	4—6	21	24			66	
	5—0	21	24			72	
	5—6	21	24			78	
	6—0	21	27			84	
4 ft.	3—6	21	24		62⅞	54	125
	4—0	21	24			60	
	4—6	21	27			66	
	5—0	21	27			72	
	5—6	24	27			78	
	6—0	24	27			84	
	6—6	24	27			90	
	7—0	24	30			96	
5 ft.	4—0	21	27		75⅞	60	150½
	4—6	24	27			66	
	5—0	24	27			72	
	5—6	24	27			78	
	6—0	24	30			84	
	6—6	27	30			90	
	7—0	27	30			96	
	7—6	27	30			102	
	8—0	27	33			108	
6 ft.	4—6	24	27		88⅞	66	176
	5—0	24	30			72	
	5—6	27	30			78	
	6—0	27	30			84	
	6—6	27	33			90	
	7—0	30	33			96	
	7—6	30	33			102	
	8—0	30	33			108	
	8—6	33	36			114	
	9—0	33	36			120	

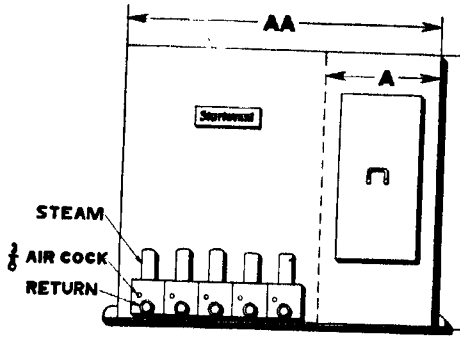
Note: Dotted lines at left of casing show location of additional header and piping, for double group heaters. Dimension "A" is length of air space.

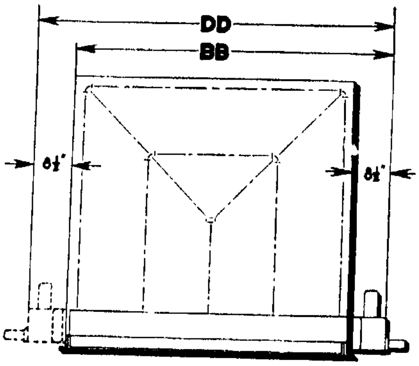
"Single" means that heater is one section wide.

"Double" or "Double Group" means that heater is of double width and has two sections placed back-to-back.

Sturtevant Heaters — London Type

Dimensions in Inches





Size of Section: Nominal length of base	Size of Section: Nominal height of pipes ft. in.	A Single	A Double	AA	BB Single	CC	DD Double Group
3 ft.	3—0	21	24	$AA = 4\frac{5}{8}'' + A + 4.25N_2 + 7.75N^4$ N^2 = Number of Two Row Sections N^4 = Number of Four Row Sections	46¼	48	91¾
	3—6	21	24			54	
	4—0	21	24			60	
	4—6	21	24			66	
	5—0	21	24			72	
	5—6	21	24			78	
	6—0	21	27			84	
4 ft.	3—6	21	24		58¾	54	116¾
	4—0	21	24			60	
	4—6	21	27			66	
	5—0	21	27			72	
	5—6	24	27			78	
	6—0	24	27			84	
	6—6	24	27			90	
	7—0	24	30			96	
5 ft.	4—0	21	27		71¾	60	142¼
	4—6	24	27			66	
	5—0	24	27			72	
	5—6	24	27			78	
	6—0	24	30			84	
	6—6	27	30			90	
	7—0	27	30			96	
	7—6	27	30			102	
	8—0	27	33			108	
6 ft.	4—6	24	27		84¾	66	167¾
	5—0	24	30			72	
	5—6	27	30			78	
	6—0	27	30			84	
	6—6	27	33			90	
	7—0	30	33			96	
	7—6	30	33			102	
	8—0	30	33			108	
	8—6	33	36			114	
	9—0	33	36			120	

Note: Dotted lines at left of casing show location of additional header and piping for double group heaters.

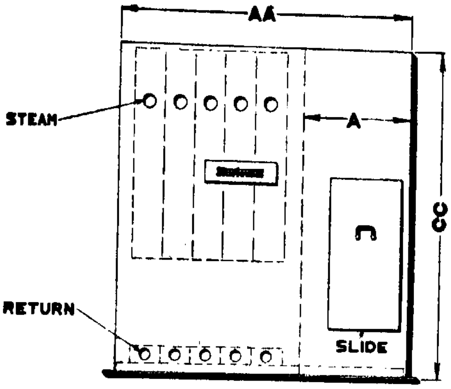
Dimension "A" is length of air space.

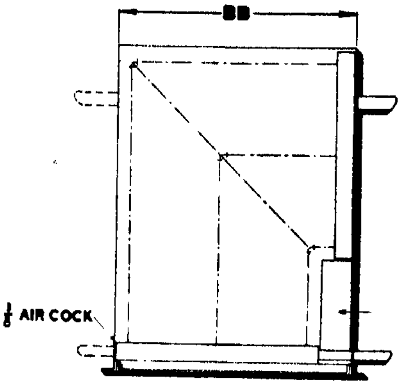
"Single" means that heater is one section wide.

"Double" or "Double Group" means that heater is of double width and has two sections placed back-to-back.

Sturtevant Heaters—Mitre Type

Dimensions in Inches





SIZE OF SECTION			A		AA	BB		CC
Nominal Length of Case in ft.	Nominal Length of Pipes in ft. and in.	Nominal Height of Pipes in ft. and in.	Single	Double		Single	Double	
3	3—0	5—0	21	24	AA=7″+A+4.125N_2+7.75N_4 N_2=No. of Two Row Sections N_4=No. of Four Row Sections	45¼	90	67½
	3—0	5—6	21	27		45¼	90	73⅞
	3—0	6—0	24	27		45¼	90	79¼
	4—0	5—0	24	27		58	115½	67½
	4—0	5—6	24	27		58	115½	73⅞
4	4—0	6—0	24	27		58	115½	79¼
	4—0	7—0	27	30		58	115½	92
	4—0	8—0	27	30		58	115½	103⅝
	5—0	6—0	27	30		70¾	141	79¼
5	5—0	7—0	27	33		70¾	141	92
	5—0	8—0	30	33		70¾	141	103⅝
	5—0	9—0	33	33		70¾	141	115⅜
	5—0	10—0	33	36		70¾	141	127
	6—0	7—0	30	33		83½	166½	92
6	6—0	8—0	33	36		83½	166½	103⅝
	6—0	9—0	33	36		83½	166½	115⅜
	6—0	10—0	36	39		83½	166½	127
	6—0	11—0	39	39		83½	166½	139¾
	6—0	12—0	39	42		83½	166½	151½

Note: Dotted lines outside of casing show location of additional piping for double group of heaters.

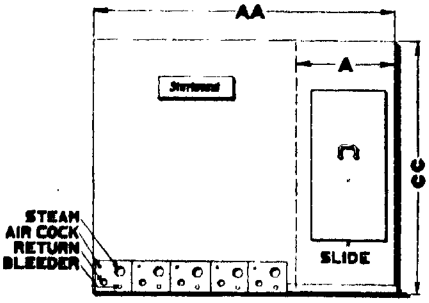
Dimension "A" is length of air space.

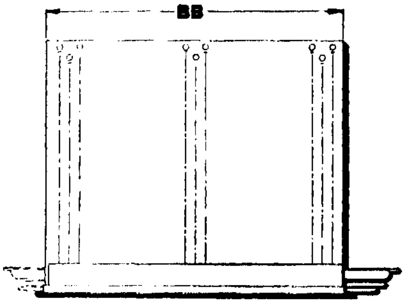
"Single" means that heater has a width of one section.

"Double Group" means that heater is of double width having two sections placed back-to-back.

Sturtevant Heaters—Return Bend Type

Dimensions in Inches





Sz. of Section		A		AA	BB		CC
Nom'l Sz. and L'gth of Base	Nom'l Hgt. Pipes ft. in.	S'gl	D'bl		S'gl	D'bl	
No. 12 2 ft. 11⅛ in.	2—9	21	24	$AA = 4'' + A + 9.25N_4$ N_4 = Number of Four Row Sections	35¼	70⅞	41⅝
	3—0	21	24				44⅝
	3—3	21	24				47⅝
	3—6	21	24				50⅝
	3—9	21	24				53⅝
	4—0	21	24				56⅝
	4—3	21	24				59⅝
	4—6	21	24				62⅝
	4—9	21	24				65⅝
	5—0	21	24				68⅝
	5—3	21	24				71⅝
	5—6	21	24				74⅝
	5—9	21	24				77⅝
	6—0	21	24				80⅝
	6—6	21	27				86⅝
	7—0	24	27				92⅝
No. 15 3 ft. 7⅜ in.	2—9	21	24		43½	87⅜	41⅝
	3—0	21	24				44⅝
	3—3	21	24				47⅝
	3—6	21	21				50⅝
	3—9	21	21				53⅝
	4—0	21	24				56⅝
	4—3	21	24				59⅝
	4—6	21	24				62⅝

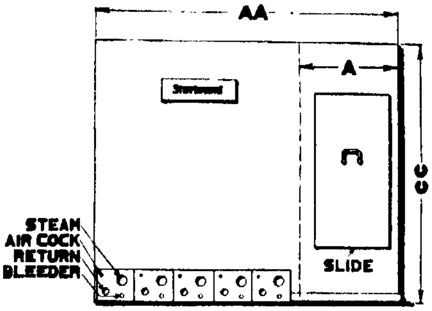
Sz. of Section		A		AA	BB		CC
Nom'l Sz. and L'gth of Base	Nom'l Hgt. Pipes ft. in.	S'gl	D'bl		S'gl	D'bl	
No. 15 3 ft. 7⅜ in.	4—9	21	24	$AA = 4'' + A + 9.25\,N_4$ N_4 = Number of Four Row Sections	43½	87⅜	65⅝
	5—0	21	27				68⅝
	5—3	21	27				71⅝
	5—6	21	27				74⅝
	5—9	24	27				77⅝
	6—0	24	27				80⅝
	6—6	24	27				86⅝
	7—0	21	27				92⅝
	7—6	24	27				98⅝
	8—0	24	30				104⅝
No. 18 4 ft. 3⅝ in.	2—9	21	24		51¾	103⅞	41⅝
	3—0	21	24				44⅝
	3—3	21	24				47⅝
	3—6	21	24				50⅝
	3—9	21	24				53⅝
	4—0	21	24				56⅝
	4—3	21	27				59⅝
	4—6	21	27				62⅝
	4—9	21	27				65⅝
	5—0	24	27				68⅝
	5—3	24	27				71⅝
	5—6	24	27				74⅝
	5—9	24	27				77⅝
	6—0	24	27				80⅝

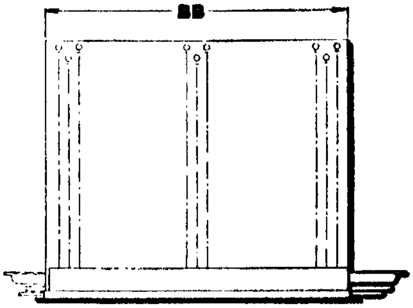
Sz. of Section		A		AA	BB		CC
Nom'l Sz. and L'gth of Base	Nom'l Hgt. Pipes ft. in.	S'gl	D'bl		S'gl	D'bl	
No. 18 4 ft. 3⅝ in.	6—6	24	30	$AA = 4'' + A + 9.24N^4$ N^4 = Number of Four Row Sections	51¾	103⅞	86⅝
	7—0	24	30				92⅝
	7—6	27	30				98⅝
	8—0	27	30				104⅝
	8—6	27	30				110⅝
	9—0	27	33				116⅝
No. 22 5 ft. 2⅜ in.	3—0	21	24		62¾	125⅞	45⅜
	3—3	21	24				48⅜
	3—6	21	27				51⅜
	3—9	21	27				54⅜
	4—0	24	27				57⅜
	4—3	24	27				60⅜
	4—6	24	27				63⅜
	4—9	21	27				66⅜
	5—0	24	27				69⅜
	5—3	24	27				72⅜
	5—6	24	30				75⅜
	5—9	24	30				78⅜
	6—0	27	30				81⅜
	6—6	27	30				87⅜
	7—0	27	30				93⅜
	7—6	27	33				99⅜
	8—0	30	33				105⅜
	8—6	30	33				111⅜
	9—0	30	33				117⅜
	10—0	33	36				129⅜

NOTE: Dotted lines at left of casing show location of additional headers and piping for double group heaters.
Dimension "A" is length of air space.
"Single" means that heater consists of a single section. "Double" means that heater is of double width, having two sections placed back-to-back.

Sturtevant Heaters—Return Bend Type—Continued

Dimensions in Inches





Sz. of Section: Nom'l Sz. and L'gth of Base	Sz. of Section: Nom'l Hgt. Pipes ft. in.	A S'gl	A D'bl	AA	BB S'gl	BB D'bl	CC
No. 25 5 ft. 10⅞ in.	3—0	21	27	AA=4″+A+9.25 N₄ N₄=Number of Four Row Sections	71	142⅜	45⅜
	3—3	21	27				48⅜
	3 6	24	27				51⅜
	3—9	24	27				54⅜
	4—0	24	27				57⅜
	4—3	24	27				60⅜
	4 6	24	27				63⅜
	4 9	24	30				66⅜
	5—0	24	30				69⅜
	5—3	27	30				72⅜
	5 6	27	30				75⅜
	5—9	27	30				78⅜
	6—0	27	30				81⅜
	6—6	27	33				87⅜
	7—0	30	33				93⅜
	7—6	30	33				99⅜
	8—0	30	33				105⅜
	8—6	30	36				111⅜
	9—0	33	36				117⅜
	10—0	33	36				129⅜
No. 28 6 ft. 7⅛ in.	3—6	24	27		79¼	158⅞	51⅜
	3—9	24	27				54⅜
	4—0	24	27				57⅜
	4—3	24	30				60⅜
No. 28 6 ft. 7⅛ in.	4—6	24	30	AA=4″+A+9.25N₄ N₄=Number of Four Row Sections	79¼	158⅞	63⅜
	4—9	27	30				66⅜
	5—0	27	30				69⅜
	5 3	27	30				72⅜
	5—6	27	30				75⅜
	5 9	27	33				78⅜
	6 0	27	33				81⅜
	6 6	30	33				87⅜
	7 0	30	33				93⅜
	7—6	30	33				99⅜
	8—0	33	36				105⅜
	8 6	33	36				111⅜
	9 0	33	36				117⅜
	10 0	36	39				129⅜
	11—0	39	39				141⅜
No. 31 7 ft. 3⅜ in.	4—0	24	30		87½	175⅜	57⅞
	4—3	27	30				60⅞
	4—6	27	30				63⅞
	4—9	27	30				66⅞
	5—0	27	30				69⅞
	5—3	27	33				72⅞
	5 6	27	33				75⅞
	5 9	30	33				78⅞
	6 0	30	33				81⅞
	6—6	30	33				87⅞
	7—0	33	36				93⅞
	7—6	33	36				99⅞
	8 0	33	36	AA=4″+A+9.25N₄ N₄=Number of Four Row Sections			105⅞
	8 6	36	36				111⅞
	9 0	36	39				117⅞
	10 0	39	39				129⅞
	11—0	39	42				141⅞
No. 36 8 ft. 5⅛ in.	5 6	30	33		101¼	202⅞	75⅞
	5—9	30	33				78⅞
	6—0	33	36				81⅞
	6—6	33	36				87⅞
	7 0	33	36				93⅞
	7 6	36	39				99⅞
	8—0	36	39				105⅞
	8—6	39	39				111⅞
	9 0	39	42				117⅞
	10 0	39	42				129⅞
	11—0	42	45				141⅞
	12—0	42	48				153⅞
No. 40 9 ft. 4⅛ in.	7 0	36	39		112¼	224⅞	94¼
	7 6	36	39				100¼
	8—0	39	39				106¼
	8—6	39	42				112¼
	9—0	39	42				118¼
	10—0	42	45				130¼
	11—0	42	48				142¼
	12—0	42	48				154¼

NOTE: Dotted lines at left of casing show location of additional headers and piping for double group heaters.
Dimension "A" is length of air space.
"Single" means that heater consists of a single section. "Double" means that heater is of double width, having two sections placed back-to-back.

Sturtevant Heaters—Return Bend Type

Heating Surface, Free Areas, Dimensions and Weights

1-inch Pipes Spaced on 2¼-inch Centers

Size of Section			Square Feet of Heating Surface	Equivalent 1 inch Pipe in Feet	Weight of Section in pounds	Free Area through Section in Sq. Feet	Size of Section			Square Feet of Heating Surface	Equivalent 1 inch Pipe in Feet	Weight of Section in pounds	Free Area through Section in Sq. Feet
Nominal Size and Length of Base	Nominal Height of Pipes Ft.	Ins.					Nominal Size and Length of Base	Nominal Height of Pipes Ft.	Ins.				
No. 12 **ft. 11⅛ ins.**	2	9	48	139	447	4.80	**No. 15** **3 ft. 7⅜ ins.**	2	9	60	174	556	5.80
	3	0	52	151	468	5.19		3	0	65	189	580	6.27
	3	3	56	163	488	5.58		3	3	70	204	605	6.74
	3	6	61	175	508	5.97		3	6	76	219	630	7.21
	3	9	65	187	528	6.36		3	9	81	234	655	7.68
	4	0	69	199	548	6.75		4	0	86	249	680	8.15
	4	3	73	211	568	7.14		4	3	91	264	705	8.62
	4	6	77	223	588	7.53		4	6	96	279	730	9.09
	4	9	81	235	608	7.92		4	9	101	294	755	9.56
	5	0	85	247	628	8.31		5	0	107	309	780	10.03
	5	3	90	259	648	8.70		5	3	112	324	805	10.50
	5	6	94	271	668	9.09		5	6	117	339	830	10.97
	5	9	98	283	688	9.48		5	9	122	354	855	11.44
	6	0	102	296	708	9.87		6	0	127	369	880	11.91
	6	6	110	320	748	10.65		6	6	138	399	930	12.85
	7	0	119	845	788	11.43		7	0	148	429	980	13.79
								7	6	158	459	1030	14.73
								8	0	169	490	1080	15.67
No. 18 **ft. 3⅝ ins.**	2	9	72	209	654	6.93	**No. 22** **5 ft. 2⅝ ins.**	3	0	95	275	840	8.94
	3	0	78	227	684	7.49		3	3	103	297	877	9.61
	3	3	85	245	714	8.05		3	6	110	319	914	10.28
	3	6	91	263	744	8.61		3	9	118	341	951	10.95
	3	9	97	281	774	9.17		4	0	125	363	988	11.62
	4	0	103	299	804	9.73		4	3	133	385	1025	12.29
	4	3	109	317	834	10.29		4	6	141	407	1062	13.96
	4	6	116	335	864	10.85		4	9	148	429	1099	14.63
	4	9	122	353	894	11.41		5	0	156	451	1136	15.30
	5	0	128	371	924	11.97		5	3	163	473	1173	15.97
	5	3	134	389	954	12.53		5	6	171	495	1210	16.64
	5	6	140	407	984	13.09		5	9	179	517	1247	17.31
	5	9	147	425	1014	13.65		6	0	186	539	1284	17.98
	6	0	153	443	1044	14.21		6	6	201	582	1358	19.32
	6	6	165	479	1104	15.33		7	0	216	626	1432	20.66
	7	0	178	515	1164	16.45		7	6	232	670	1506	22.00
	7	6	190	551	1224	17.57		8	0	247	714	1580	23.34
	8	0	202	587	1284	18.69		8	6	262	758	1654	24.68
	8	6	215	623	1344	19.81		9	0	277	802	1728	26.02
	9	0	227	659	1404	20.93		10	0	307	890	1876	28.70
No. 25 **ft. 10⅞ ins.**	3	0	108	313	963	10.06	**No. 28** **6 ft. 7⅛ ins.**	3	6	140	407	1176	12.92
	3	3	117	338	1005	10.82		3	9	150	435	1223	13.76
	3	6	125	363	1047	11.58		4	0	160	463	1270	14.60
	3	9	134	388	1080	12.34		4	3	169	491	1317	15.44
	4	0	142	413	1131	13.10		4	6	179	519	1364	16.28
	4	3	151	438	1173	13.82		4	9	189	547	1411	17.12
	4	6	160	463	1215	14.62		5	0	198	575	1458	17.96
	4	9	168	488	1257	15.38		5	3	208	603	1505	18.80
	5	0	177	513	1299	16.14		5	6	218	631	1552	19.64
	5	3	186	538	1341	16.90		5	9	227	669	1599	20.48
	5	6	194	563	1383	17.66		6	0	237	697	1646	21.32
	5	9	203	588	1425	18.42		6	6	256	753	1740	23.00
	6	0	211	613	1467	19.18		7	0	276	809	1834	24.68
	6	6	229	663	1551	20.70		7	6	295	865	1928	26.36
	7	0	246	713	1635	22.22		8	0	314	921	2022	28.04
	7	6	263	763	1719	23.74		8	6	333	977	2116	29.72
	8	0	280	813	1808	25.26		9	0	353	1033	2210	31.40
	8	6	298	863	1887	26.78		10	0	391	1145	2398	34.76
	9	0	315	913	1971	28.30		11	0	429	1257	2580	38.12
	10	0	349	1013	2139	31.34							

1. All sections contain four rows.

2. The overall height of a heater above the bottom of the base is determined by adding to the nominal height of pipes one of the following constants:

For sizes Nos. 12, 15 and 18 add 8⅝ inches.
For sizes Nos. 22, 25 and 28 add 9⅜ inches.
For sizes Nos. 31 and 36 add 9⅞ inches.
For size No. 40 add 10¼ inches.

This additional height is due to the space occupied by the base and by the elbow at the top.

Note:—Free Area is approximately 9% of heating surface. The percentage varies slightly for every heater.

These notes also refer to continuation of this table at top of following page.

Sturtevant Heaters — Return Bend Type — Continued

Heating Surface, Free Areas, Dimensions and Weights

1-inch Pipes Spaced on 2¾-inch Centers

Size of Section			Square Feet of Heating Surface	Equivalent 1 inch Pipe in Feet	Weight of Section in pounds	Free Area through Section in Sq. Ft.
Nominal Size and Length of Base	Nominal Height of Pipes Ft.	Ins.				
No. 31 7 ft. 3⅜ ins.	4	0	177	512	1423	16 17
	4	3	187	543	1475	17 12
	4	6	198	574	1527	18 07
	4	9	209	605	1579	19 02
	5	0	219	636	1631	19 97
	5	3	230	667	1683	20 92
	5	6	241	698	1735	21 87
	5	9	252	729	1787	22 82
	6	0	263	760	1839	23.77
	6	6	284	822	1943	25 67
	7	0	305	884	2047	27 57
	7	6	326	946	2151	29 47
	8	0	348	1008	2255	31 37
	8	6	369	1070	2359	33.27
	9	0	391	1132	2463	35 17
	10	0	433	1256	2671	38 97
	11	0	476	1380	2879	42 77

See notes on previous page.

Size of Section			Square Feet of Heating Surface	Equivalent 1 inch Pipe in Feet	Weight of Section in pounds	Free Area through Section in Sq. Ft.
Nominal Size and Length of Base	Nominal Height of Pipes Ft.	Ins.				
No. 36 8 ft. 5⅛ ins.	5	6	280	811	2025	25.07
	5	9	292	845	2086	26 15
	6	0	304	879	2147	27.23
	6	6	327	947	2209	29.39
	7	0	350	1015	2391	31.55
	7	6	373	1083	2513	33.71
	8	0	397	1151	2635	35.87
	8	6	420	1219	2757	38 03
	9	0	444	1287	2879	40.19
	10	0	491	1423	3123	44.51
	11	0	538	1559	3367	48.83
	12	0	585	1695	3611	53.15
No. 40 9 ft. 4⅛ ins.	7	0	395	1145	2664	34.83
	7	6	423	1225	2798	37.20
	8	0	450	1305	2932	39.57
	8	6	478	1385	3066	41.94
	9	0	505	1465	3200	44.31
	10	0	560	1625	3468	49.05
	11	0	615	1785	3736	53.79
	12	0	670	1945	4004	58.53

Sturtevant Heaters—Regular and London Types

1-inch Pipes Spaced on 2⅛-inch Centers

Size of Section			Free Area for Air Passage in Sq Ft.	Four Row Section			Two Row Section		
Nominal Length of Base	Nominal Height of Pipes Ft.	In.		Sq. Ft. of Heating Surface	Equivalent Lineal Ft. of 1" Pipe	Weight of Section in pounds	Sq. Ft. of Heating Surface	Equivalent Lineal Ft. of 1" Pipe	Weight of Section in pounds
3 Ft.	3	0	3 85	67	194	606	33	97	338
	3	6	4 52	79	230	663	40	115	368
	4	0	5 21	92	266	720	46	133	396
	4	6	5.76	102	296	777	51	148	425
	5	0	6 46	114	332	833	57	166	453
	5	6	7.12	127	368	890	63	184	481
	6	0	7.67	137	398	948	69	199	510
4 Ft.	3	6	5 94	108	312	858	54	156	464
	4	0	6 85	124	360	935	62	180	503
	4	6	7 60	138	400	1012	69	200	541
	5	0	8 46	155	450	1088	78	225	579
	5	6	9.37	172	498	1165	86	249	618
	6	0	10 10	186	540	1242	93	270	656
	6	6	11 01	202	588	1319	101	294	695
	7	0	11 88	220	638	1400	110	319	733
5 Ft.	4	0	8 50	156	454	1183	78	227	642
	4	6	9.45	174	506	1280	87	253	690
	5	0	10 51	196	568	1376	98	284	738
	5	6	11 68	216	628	1473	108	314	788
	6	0	12 56	234	680	1570	117	340	835
	6	6	13 65	256	742	1677	128	371	884
	7	0	14 75	277	804	1774	138	402	932
	7	6	15 75	294	854	1870	147	427	980
	8	0	16.81	316	916	1967	158	458	1028
6 Ft.	4	6	11.29	210	610	1533	105	305	794
	5	0	12 60	236	684	1652	118	342	853
	5	6	13 89	262	760	1767	131	380	910
	6	0	14 96	283	822	1884	142	411	970
	6	6	16 32	309	896	2000	155	448	1028
	7	0	17 64	334	970	2118	167	485	1087
	7	6	18.75	356	1032	2235	178	516	1145
	8	0	20 07	382	1106	2352	191	553	1204
	8	6	21.18	403	1168	2469	201	584	1252
	9	0	22 50	428	1242	2586	214	621	1310

Note: — Actual height of top of heater above floor is obtained by adding 12 inches to the nominal height of pipes. This allows for the base. Free area is approximately 5.5% of heating surface for 4-row sections.

Mitre Type Heaters

1-inch Pipes Spaced on 2⅛-inch Centers

Size of Section					Free Area for Air Passage in Sq. Ft.	Four Row Section			Two Row Section		
Nominal Length of Base	Nominal Length of Pipes Ft.	In.	Nominal Height of Pipes Ft.	In.		Sq. Ft. of Heating Surface	Equivalent Lineal Ft. of 1" Pipe	Weight of Section in pounds	Sq. Ft. of Heating Surface	Equivalent Lineal Ft. of 1" Pipe	Weight of Section in pounds
3 Ft.	3	0	5	0	6 35	123	356	900	62	178	460
	3	0	5	6	7 01	135	392	960	68	196	490
	3	0	6	0	7.56	146	422	1010	73	211	510
	4	0	5	0	7.67	148	428	1020	74	214	515
	4	0	5	6	8.33	160	464	1080	80	232	550
4 Ft.	4	0	6	0	10.10	196	570	1360	98	285	680
	4	0	7	0	11.84	230	668	1530	115	334	760
	4	0	8	0	13.44	262	758	1680	131	379	840
	5	0	6	0	11 84	230	668	1530	115	334	760
5 Ft.	5	0	7	0	14.76	290	842	1880	145	421	990
	5	0	8	0	16.74	330	956	2070	165	478	1090
	5	0	9	0	18.75	368	1068	2260	184	534	1180
	5	0	10	0	20.73	408	1182	2450	204	591	1275
	6	0	7	0	16.91	333	966	2100	166	483	1100
6 Ft.	6	0	8	0	20.00	398	1154	2520	199	577	1320
	6	0	9	0	22.43	445	1290	2740	223	645	1430
	6	0	10	0	24.82	492	1426	2970	246	718	1550
	6	0	11	0	27.40	543	1576	3220	272	788	1670
	6	0	12	0	29.80	590	1712	3450	295	856	1785

Two-Row Mitre Sections with Pipes Spaced on 2⅝-inch Centers

Nominal Length of Base	Nominal Length of Pipes Ft.	In.	Nominal Height of Pipes Ft.	In.	Lineal Feet of Pipe	No. of Pipes	1¼-in. Pipe Free Area Sq. Ft.	1¼-in. Pipe Wt. in lbs. per Section	1-in. Pipe Free Area Sq. Ft.	1-in. Pipe Wt. in lbs. per Section
6 Ft.	6	0	8	0	441	54	18.36	1365	25.21	1080
	6	0	9	0	494		20.62	1485	28.23	1170
	6	0	10	0	547		22.85	1605	31.25	1260
	6	0	11	0	600		25.10	1725	34.27	1350
	6	0	12	0	654		27.26	1845	37.29	1435
	6	0	13	0	713		29.75	1980		
	6	0	14	0	766		31.98	2095		
7 Ft.	7	0	9	0	567	62	23.54	1780	32.29	1410
	7	0	10	0	628		26.08	1900	35.73	1505
	7	0	11	0	689		28.61	2040	39.16	1605
	7	0	12	0	750		31.18	2970	42.60	1710
	7	0	13	0	818		34.00	2330		
	7	0	14	0	879		36.53	2465		

Note: On account of base, actual height is approximately 8½ inches greater than nominal height of pipes. Free area is approximately 5.2% of heating surface for 4-row section.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
0 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
212° F.

Number of 4-Row Sections Deep

in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
500	-40	17	2.09	56	1.76	83	1.50	104	1.32	120	1.17	133	1.06	144	0.96
	-30	23	1.94	59	1.63	86	1.42	107	1.25	122	1.11	135	1.01	145	0.92
	-20	30	1.83	64	1.54	90	1.34	110	1.20	125	1.06	136	0.95	146	0.87
	-10	36	1.68	69	1.45	93	1.26	112	1.12	127	1.00	138	0.90	147	0.82
	0	43	1.58	73	1.31	97	1.18	115	1.05	129	0.95	140	0.86	148	0.76
	10	50	1.47	79	1.26	101	1.11	118	0.99	131	0.89	142	0.81	151	0.74
	20	57	1.36	84	1.17	105	1.04	121	0.92	134	0.84	144	0.76	153	0.70
	30	64	1.25	90	1.10	109	0.96	125	0.87	136	0.78	146	0.71	155	0.65
	40	71	1.14	95	1.01	114	0.90	128	0.81	139	0.73	148	0.66	157	0.61
	50	79	1.06	101	0.93	118	0.84	131	0.74	142	0.67	151	0.62	159	0.57
	60	86	0.95	107	0.86	123	0.77	135	0.69	145	0.62	154	0.57	161	0.53
	70	94	0.88	113	0.79	127	0.70	139	0.63	148	0.57	156	0.53	163	0.49
800	-40	13	2.59	50	2.20	77	1.90	97	1.67	114	1.50	127	1.36	138	1.24
	-30	19	2.39	54	2.05	80	1.79	100	1.59	116	1.43	129	1.29	140	1.19
	-20	26	2.25	59	1.93	84	1.69	103	1.50	118	1.35	131	1.23	142	1.13
	-10	33	2.10	65	1.83	88	1.39	106	1.42	121	1.28	133	1.16	143	1.07
	0	41	2.00	70	1.71	92	1.50	109	1.33	124	1.21	135	1.10	145	1.01
	10	47	1.81	75	1.59	96	1.40	113	1.26	126	1.13	137	1.03	147	0.96
	20	55	1.71	81	1.49	100	1.30	116	1.17	129	1.06	140	0.98	149	0.90
	30	62	1.56	86	1.37	105	1.22	120	1.10	132	1.00	142	0.91	150	0.84
	40	69	1.42	91	1.25	109	1.12	123	1.01	135	0.93	145	0.85	153	0.79
	50	77	1.32	97	1.17	114	1.04	127	0.94	138	0.86	147	0.79	155	0.73
	60	84	1.17	103	1.05	119	0.96	131	0.87	142	0.80	150	0.73	157	0.68
	70	92	1.07	109	0.95	123	0.86	135	0.79	145	0.73	153	0.68	160	0.63
000	-40	9	2.99	45	2.60	71	2.26	92	2.02	109	1.82	123	1.66	134	1.52
	-30	16	2.81	49	2.41	75	2.14	95	1.91	111	1.72	125	1.58	136	1.45
	-20	24	2.69	55	2.29	80	2.04	99	1.82	115	1.65	127	1.50	138	1.38
	-10	31	2.50	61	2.17	84	1.91	102	1.71	118	1.56	130	1.42	140	1.31
	0	38	2.32	66	2.02	88	1.79	106	1.62	120	1.47	132	1.34	142	1.24
	10	45	2.14	71	1.86	92	1.67	109	1.51	123	1.38	134	1.26	144	1.17
	20	53	2.02	78	1.77	97	1.57	113	1.42	126	1.30	137	1.19	146	1.10
	30	60	1.83	83	1.62	102	1.47	117	1.33	129	1.25	139	1.11	148	1.03
	40	68	1.71	89	1.50	107	1.36	121	1.24	132	1.12	142	1.04	150	0.96
	50	75	1.53	95	1.37	111	1.24	125	1.14	136	1.05	145	0.97	153	0.90
	60	83	1.40	102	1.28	117	1.16	129	1.05	139	0.97	148	0.90	155	0.83
	70	91	1.28	108	1.16	122	1.06	134	0.98	144	0.90	150	0.81	158	0.77

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
0 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
212° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	4	3.22	38	2.86	65	2.57	85	2.29	103	2.09	117	1.92	128	1.76
	—30	11	3.00	44	2.71	69	2.42	89	2.18	106	1.99	119	1.89	130	1.68
	—20	19	2.86	50	2.57	73	2.27	93	2.07	109	1.89	122	1.73	132	1.59
	-10	27	2.71	56	2.42	78	2.15	97	1.96	112	1.79	124	1.64	135	1.52
	0	35	2.57	62	2.27	83	2.03	101	1.85	115	1.69	127	1.55	137	1.43
	10	43	2.42	68	2.13	88	1.90	105	1.74	118	1.58	130	1.47	139	1.35
	20	51	2.27	74	1.98	93	1.78	109	1.63	122	1.50	132	1.37	142	1.28
	30	58	2.05	80	1.83	98	1.66	113	1.52	125	1.39	135	1.28	144	1.19
	40	66	1.91	86	1.69	103	1.54	117	1.41	129	1.30	139	1.21	147	1.12
	50	73	1.68	93	1.58	109	1.44	122	1.32	132	1.20	142	1.12	149	1.03
	60	81	1.54	100	1.47	114	1.32	126	1.21	136	1.11	145	1.04	152	0.96
	70	90	1.47	106	1.32	120	1.22	131	1.12	140	1.02	148	0.95	156	0.89
1500	—40	-1	3.58	31	3.25	56	2.93	77	2.68	93	2.44	108	2.26	120	2.09
	30	7	3.39	37	3.14	61	2.77	81	2.54	97	2.33	111	2.15	123	2.00
	—20	15	3.21	43	2.88	66	2.62	85	2.40	100	2.20	114	2.05	125	1.90
	—10	23	3.02	50	2.75	72	2.50	89	2.27	104	2.09	117	1.94	128	1.81
	0	31	2.84	56	2.56	77	2.35	93	2.13	108	1.98	120	1.83	131	1.71
	10	40	2.75	63	2.43	82	2.19	98	2.01	112	1.87	124	1.74	134	1.62
	20	47	2.47	69	2.24	87	2.04	103	1.90	116	1.76	127	1.63	136	1.52
	30	55	2.29	76	2.11	93	1.92	107	1.76	120	1.65	131	1.54	139	1.43
	40	63	2.11	82	1.92	98	1.77	112	1.65	124	1.54	134	1.43	142	1.33
	50	71	1.92	89	1.79	104	1.65	117	1.53	128	1.43	137	1.38	145	1.24
	60	79	1.74	46	1.65	110	1.52	122	1.42	132	1.32	141	1.23	148	1.15
	70	88	1.65	103	1.51	116	1.40	127	1.30	137	1.23	145	1.14	152	1.07
1800	—40	—4	3.95	26	3.62	50	3.30	71	3.05	88	2.82	103	2.62	115	2.43
	—30	4	3.74	33	3.46	56	3.15	75	2.89	92	2.68	106	2.49	118	2.32
	-20	13	3.63	39	3.24	61	2.97	80	2.75	96	2.55	109	2.36	121	2.21
	—10	21	3.41	46	3.08	67	2.82	85	2.61	100	2.42	113	2.25	124	2.11
	0	29	3.19	53	2.91	73	2.68	89	2.45	104	2.29	117	2.14	127	2.00
	10	37	2.97	59	2.69	78	2.49	94	2.31	108	2.15	120	2.02	130	1.88
	20	45	2.75	66	2.53	84	2.34	99	2.17	113	2.04	124	1.90	133	1.77
	30	53	2.53	73	2.36	90	2.20	105	2.06	117	1.91	127	1.78	136	1.66
	40	62	2.42	81	2.25	96	2.05	110	1.92	121	1.78	131	1.67	139	1.55
	50	70	2.20	87	2.03	102	1.91	115	1.79	126	1.67	134	1.54	142	1.44
	60	79	2.09	95	1.92	109	1.79	121	1.63	130	1.54	138	1.43	146	1.35
	70	87	1.87	102	1.76	115	1.65	126	1.54	131	1.41	142	1.32	149	1.24

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
5 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
227° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
600	-40	23	2.32	61	1.92	94	1.65	116	1.44	133	1.28	146	1.14	157	1.04
	-30	29	2.18	68	1.81	97	1.56	118	1.36	135	1.22	148	1.09	158	0.99
	-20	35	2.06	72	1.70	100	1.48	120	1.29	137	1.16	149	1.04	159	0.94
	-10	42	1.92	77	1.60	103	1.38	123	1.23	139	1.10	151	0.99	161	0.90
	0	49	1.81	83	1.53	107	1.31	126	1.16	141	1.04	153	0.94	163	0.86
	10	56	1.70	87	1.42	111	1.24	129	1.10	143	0.98	155	0.89	164	0.81
	20	62	1.55	92	1.33	115	1.17	132	1.03	145	0.92	157	0.84	166	0.77
	30	69	1.44	97	1.23	118	1.08	135	0.97	148	0.87	159	0.79	167	0.72
	40	76	1.33	102	1.14	122	1.01	138	0.90	150	0.81	161	0.74	169	0.68
	50	83	1.22	108	1.07	126	0.93	141	0.84	153	0.76	163	0.69	171	0.64
	60	90	1.10	113	0.98	131	0.87	144	0.78	156	0.71	165	0.64	173	0.60
	70	97	1.00	119	0.90	135	0.80	148	0.72	158	0.65	167	0.60	175	0.55
800	-40	18	2.86	57	2.39	87	2.09	109	1.84	126	1.64	140	1.48	151	1.35
	-30	24	2.66	62	2.27	90	1.97	111	1.74	128	1.56	142	1.41	153	1.29
	-20	31	2.51	66	2.12	94	1.88	114	1.65	130	1.48	143	1.34	154	1.22
	-10	38	2.37	72	2.02	98	1.77	117	1.56	133	1.41	145	1.27	156	1.17
	0	45	2.22	77	1.90	102	1.68	120	1.48	135	1.33	147	1.21	157	1.10
	10	52	2.07	83	1.80	106	1.58	124	1.40	138	1.26	150	1.15	160	1.05
	20	59	1.92	88	1.67	109	1.46	126	1.31	140	1.18	152	1.08	161	0.99
	30	66	1.77	93	1.55	114	1.38	130	1.23	143	1.11	154	1.02	163	0.94
	40	73	1.63	99	1.45	118	1.28	133	1.15	146	1.04	156	0.95	165	0.88
	50	81	1.53	105	1.35	123	1.20	137	1.07	149	0.98	159	0.89	167	0.82
	60	89	1.43	111	1.26	127	1.10	141	1.00	152	0.91	161	0.83	169	0.77
	70	96	1.28	116	1.13	132	1.02	145	0.92	155	0.84	164	0.77	172	0.72
1000	-40	13	3.27	51	2.80	80	2.47	103	2.20	120	1.97	134	1.79	146	1.64
	-30	20	3.08	57	2.68	85	2.30	106	2.10	123	1.89	137	1.71	148	1.57
	-20	27	2.90	62	2.53	88	2.20	109	1.97	125	1.79	138	1.62	150	1.50
	-10	35	2.77	67	2.37	93	2.12	112	1.88	128	1.70	141	1.55	152	1.43
	0	42	2.59	73	2.25	97	1.98	116	1.79	131	1.61	143	1.47	153	1.35
	10	49	2.40	79	2.12	101	1.87	119	1.68	133	1.52	145	1.38	155	1.28
	20	56	2.22	84	1.97	106	1.77	123	1.59	136	1.43	148	1.31	158	1.21
	30	64	2.09	90	1.85	110	1.64	126	1.48	139	1.34	150	1.23	160	1.14
	40	72	1.97	96	1.72	115	1.54	130	1.39	143	1.27	153	1.16	163	1.08
	50	79	1.78	102	1.60	119	1.42	134	1.29	146	1.18	156	1.09	165	1.01
	60	87	1.66	108	1.48	125	1.33	138	1.20	149	1.10	159	1.01	167	0.94
	70	95	1.54	113	1.32	129	1.21	142	1.11	153	1.02	162	0.94	170	0.88

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
5 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
227° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	−40	9	3.62	45	3.14	72	2.76	95	2.50	114	2.28	128	2.07	141	1.91
	−30	16	3.40	50	2.95	77	2.64	99	2.38	116	2.16	131	1.98	143	1.83
	−20	24	3.25	56	2.80	82	2.51	103	2.27	119	2.05	133	1.88	145	1.74
	−10	31	3.03	62	2.66	86	2.36	106	2.14	122	1.95	136	1.80	147	1.66
	0	38	2.81	68	2.51	91	2.24	110	2.03	126	1.86	139	1.71	150	1.58
	10	46	2.66	73	2.33	96	2.12	112	1.92	129	1.76	141	1.61	152	1.50
	20	54	2.41	79	2.18	101	1.99	118	1.81	132	1.65	144	1.53	154	1.42
	30	61	2.29	86	2.07	106	1.87	122	1.70	136	1.57	147	1.44	156	1.33
	40	69	2.14	92	1.92	111	1.75	126	1.59	139	1.54	150	1.35	159	1.26
	50	77	1.99	99	1.81	116	1.62	131	1.50	143	1.45	153	1.27	102	1.18
	60	85	1.85	105	1.66	121	1.50	135	1.38	146	1.34	156	1.18	164	1.10
	70	93	1.70	112	1.55	127	1.40	140	1.29	150	1.24	159	1.09	167	1.02
1500	−40	4	4.06	37	3.56	64	3.20	86	2.91	104	2.66	119	2.45	132	2.27
	−30	12	3.88	43	3.37	68	3.02	90	2.77	107	2.53	122	2.34	134	2.16
	−20	19	3.60	49	3.19	74	2.90	94	2.63	110	2.40	125	2.23	137	2.07
	−10	27	3.42	55	3.00	78	2.71	98	2.50	114	2.29	128	2.13	140	1.98
	0	34	3.14	61	2.82	83	2.55	102	2.36	117	2.16	131	2.02	142	1.87
	10	42	2.96	68	2.68	89	2.43	106	2.22	121	2.03	134	1.96	145	1.78
	20	49	2.68	74	2.49	94	2.28	111	2.10	125	1.94	137	1.80	148	1.69
	30	57	2.49	81	2.36	100	2.15	115	1.96	129	1.83	140	1.69	151	1.60
	40	66	2.40	88	2.22	105	2.00	120	1.85	133	1.72	144	1.60	154	1.50
	50	75	2.31	95	2.08	111	1.88	125	1.73	138	1.62	148	1.51	157	1.41
	60	83	2.12	101	1.89	117	1.75	130	1.62	141	1.50	152	1.42	160	1.32
	70	91	1.94	108	1.75	122	1.60	135	1.50	146	1.40	155	1.31	163	1.23
1800	−40	0	4.43	32	3.99	59	3.66	80	3.33	99	3.08	114	2.85	127	2.64
	−30	8	4.21	39	3.83	64	3.47	85	3.19	103	2.95	117	2.72	130	2.53
	−20	17	4.10	45	3.60	70	3.33	90	3.05	106	2.79	120	2.59	132	2.41
	−10	25	3.88	52	3.44	75	3.14	94	2.88	110	2.66	123	2.46	135	2.29
	0	32	3.55	59	3.27	80	2.96	99	2.74	114	2.53	127	2.35	138	2.18
	10	40	3.33	65	3.05	86	2.81	103	2.58	118	2.39	130	2.22	141	2.07
	20	48	3.10	72	2.88	91	2.62	108	2.44	121	2.24	133	2.09	144	1.96
	30	56	2.88	79	2.72	97	2.48	112	2.27	126	2.13	137	1.98	147	1.85
	40	64	2.66	86	2.55	102	2.29	117	2.13	130	2.00	141	1.87	150	1.74
	50	73	2.55	93	2.38	108	2.14	122	2.00	134	1.86	144	1.74	153	1.63
	60	82	2.44	100	2.32	114	2.00	127	1.86	138	1.73	148	1.63	157	1.54
	70	90	2.22	106	2.00	120	1.85	132	1.72	143	1.62	152	1.52	160	1.42

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
10 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
240° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
600	—40	29	2.59	73	2.12	103	1.79	126	1.56	143	1.37	156	1.23	168	1.11
	—30	35	2.44	77	2.00	106	1.70	128	1.48	145	1.31	158	1.18	170	1.07
	—20	42	2.32	81	1.89	110	1.62	130	1.41	147	1.25	160	1.13	171	1.01
	—10	48	2.17	85	1.78	113	1.54	133	1.34	149	1.19	162	1.08	172	0.98
	0	54	2.02	90	1.68	116	1.45	136	1.27	151	1.13	163	1.02	174	0.93
	10	60	1.87	94	1.57	120	1.37	138	1.20	153	1.07	165	0.97	176	0.89
	20	67	1.76	99	1.48	123	1.29	141	1.13	155	1.01	167	0.92	177	0.84
	30	73	1.61	104	1.38	126	1.20	144	1.07	157	0.95	169	0.87	179	0.80
	40	80	1.50	108	1.27	130	1.13	146	1.00	159	0.89	170	0.81	180	0.75
	50	87	1.39	114	1.20	134	1.05	149	0.93	162	0.84	172	0.76	182	0.71
	60	94	1.27	119	1.10	138	0.98	153	0.87	164	0.78	175	0.72	184	0.66
	70	101	1.16	124	1.01	142	0.90	156	0.81	168	0.73	178	0.68	185	0.62
800	—40	23	3.15	64	2.60	94	2.23	118	1.97	136	1.76	151	1.59	163	1.45
	—30	29	2.95	69	2.47	98	2.13	120	1.88	139	1.69	153	1.52	164	1.38
	—20	35	2.75	74	2.35	101	2.02	123	1.79	141	1.61	155	1.46	166	1.33
	—10	42	2.60	78	2.20	105	1.92	126	1.70	143	1.53	157	1.39	167	1.26
	0	49	2.45	84	2.10	109	1.82	130	1.62	146	1.46	159	1.32	169	1.21
	10	56	2.30	88	1.95	113	1.72	132	1.52	148	1.38	161	1.26	171	1.15
	20	63	2.15	93	1.83	117	1.62	136	1.45	150	1.30	163	1.19	173	1.09
	30	70	2.00	98	1.70	121	1.52	139	1.36	153	1.23	164	1.12	174	1.03
	40	77	1.85	104	1.60	125	1.42	142	1.27	156	1.16	167	1.06	176	0.97
	50	84	1.70	110	1.50	130	1.33	146	1.20	159	1.09	170	1.00	178	0.91
	60	91	1.55	115	1.37	134	1.23	150	1.12	162	1.02	172	0.93	180	0.86
	70	99	1.45	121	1.27	139	1.15	153	1.04	164	0.94	174	0.87	182	0.80
1000	—40	18	3.62	58	3.06	88	2.66	112	2.37	130	2.12	145	1.93	158	1.77
	—30	26	3.50	64	2.94	93	2.56	115	2.26	133	2.07	148	1.85	160	1.70
	—20	31	3.19	69	2.78	96	2.42	118	2.16	136	1.95	150	1.77	162	1.62
	—10	38	3.00	73	2.59	100	2.29	121	2.05	138	1.85	152	1.69	163	1.54
	0	46	2.87	79	2.47	105	2.19	125	1.95	141	1.76	154	1.60	165	1.47
	10	52	2.62	84	2.31	108	2.04	128	1.84	143	1.66	156	1.52	167	1.40
	20	60	2.50	90	2.19	113	1.94	131	1.73	146	1.57	159	1.45	169	1.33
	30	69	2.44	95	2.03	118	1.83	135	1.64	149	1.49	161	1.36	171	1.26
	40	75	2.19	101	1.90	122	1.71	139	1.55	152	1.40	164	1.29	173	1.19
	50	82	2.00	107	1.78	127	1.60	142	1.44	156	1.32	166	1.21	175	1.11
	60	90	1.87	113	1.66	132	1.50	146	1.34	159	1.24	169	1.14	178	1.05
	70	97	1.69	119	1.53	136	1.37	150	1.25	162	1.15	172	1.06	180	0.98

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
10 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
240° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	13	3.98	51	3.41	80	3.00	103	2.68	122	2.43	138	2.22	151	2.05
	—30	20	3.75	57	3.26	84	2.85	107	2.57	125	2.32	140	2.13	153	1.96
	—20	27	3.52	62	3.07	88	2.70	110	2.44	128	2.22	143	2.04	155	1.87
	—10	34	3.30	67	2.89	93	2.57	114	2.32	131	2.11	145	1.94	158	1.80
	0	42	3.15	73	2.74	98	2.45	118	2.21	134	2.01	148	1.85	160	1.71
	10	49	2.92	78	2.55	102	2.30	121	2.08	137	1.90	151	1.76	162	1.63
	20	56	2.70	81	2.40	107	2.17	125	1.97	140	1.80	153	1.66	164	1.54
	30	64	2.55	90	2.25	112	2.05	129	1.85	144	1.71	156	1.57	166	1.46
	40	72	2.40	97	2.11	117	1.93	134	1.76	148	1.62	159	1.49	169	1.38
	50	79	2.17	103	1.99	122	1.80	138	1.65	151	1.51	162	1.40	171	1.30
	60	87	2.03	109	1.84	127	1.68	142	1.54	155	1.42	165	1.31	174	1.22
	70	95	1.87	116	1.72	133	1.57	147	1.44	159	1.33	169	1.24	176	1.14
1500	—40	6	4.31	42	3.84	71	3.47	94	3.14	113	2.87	129	2.64	143	2.45
	—30	14	4.12	48	3.66	76	3.32	99	3.02	117	2.76	132	2.53	146	2.36
	—20	21	3.84	54	3.47	81	3.16	103	2.88	120	2.63	135	2.42	148	2.25
	—10	29	3.66	60	3.28	86	3.00	107	2.74	124	2.51	138	2.31	151	2.16
	0	37	3.47	67	3.14	91	2.84	111	2.60	127	2.38	141	2.20	153	2.05
	10	45	3.28	74	3.00	96	2.68	115	2.46	130	2.25	144	2.09	156	1.96
	20	53	3.09	80	2.81	102	2.56	120	2.34	134	2.14	147	1.98	158	1.85
	30	61	2.91	87	2.67	108	2.43	124	2.20	138	2.03	151	1.89	161	1.76
	40	70	2.81	93	2.48	112	2.25	128	2.06	142	1.91	154	1.78	164	1.66
	50	77	2.53	100	2.34	118	2.12	133	1.95	146	1.80	157	1.67	166	1.55
	60	86	2.44	107	2.20	123	1.97	138	1.83	150	1.69	160	1.56	169	1.46
	70	94	2.25	113	2.01	129	1.84	143	1.71	154	1.58	164	1.47	172	1.37
1800	—40	2	4.72	37	4.33	65	3.94	88	3.60	108	3.33	123	3.06	137	2.85
	—30	11	4.61	44	4.17	71	3.79	93	3.46	111	3.18	126	2.93	139	2.72
	—20	19	4.39	50	3.94	76	3.60	97	3.29	115	3.04	130	2.81	142	2.60
	—10	26	4.05	57	3.77	81	3.41	102	3.15	119	2.90	132	2.66	145	2.49
	0	35	3.94	63	3.54	87	3.26	106	2.98	122	2.75	136	2.55	148	2.38
	10	43	3.71	70	3.38	92	3.07	111	2.84	126	2.61	139	2.42	150	2.25
	20	51	3.49	77	3.21	98	2.92	116	2.70	130	2.48	142	2.29	153	2.14
	30	59	3.26	84	3.04	104	2.77	120	2.53	134	2.34	146	2.17	156	2.03
	40	68	3.15	90	2.81	109	2.59	124	2.36	138	2.20	149	2.04	159	1.91
	50	76	2.93	97	2.64	115	2.44	130	2.25	142	2.07	153	1.93	162	1.80
	60	84	2.70	104	2.48	120	2.25	134	2.08	146	1.94	156	1.80	166	1.70
	70	92	2.47	111	2.31	126	2.10	139	1.94	150	1.80	160	1.69	169	1.59

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
20 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
259° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
600	—40	36	2.89	84	2.36	117	1.99	140	1.71	159	1.51	174	1.36	185	1.22
	—30	42	2.74	88	2.24	119	1.89	142	1.63	161	1.45	175	1.30	186	1.17
	—20	48	2.59	92	2.13	122	1.80	144	1.56	162	1.38	176	1.24	187	1.12
	—10	53	2.40	96	2.02	125	1.71	147	1.49	164	1.32	178	1.19	189	1.08
	0	59	2.25	101	1.92	128	1.62	149	1.42	166	1.26	179	1.13	190	1.03
	10	66	2.13	104	1.79	131	1.53	152	1.35	168	1.20	181	1.07	191	0.98
	20	72	1.98	109	1.69	134	1.44	154	1.27	170	1.14	182	1.03	192	0.94
	30	80	1.90	114	1.60	138	1.37	157	1.21	172	1.08	184	0.98	194	0.89
	40	87	1.79	119	1.50	142	1.29	160	1.14	175	1.03	186	0.93	196	0.85
	50	94	1.68	123	1.39	145	1.20	163	1.08	177	0.97	188	0.87	197	0.80
	60	101	1.56	128	1.29	149	1.13	166	1.01	179	0.90	190	0.82	199	0.76
	70	107	1.41	133	1.20	153	1.05	169	0.94	182	0.85	192	0.77	200	0.71
800	—40	29	3.50	75	2.92	108	2.50	133	2.19	152	1.94	167	1.75	179	1.59
	—30	36	3.34	80	2.79	111	2.38	135	2.09	154	1.86	168	1.67	180	1.52
	—20	42	3.14	85	2.66	115	2.28	138	2.00	156	1.78	170	1.60	182	1.46
	—10	49	2.99	89	2.51	118	2.16	140	1.90	158	1.70	172	1.54	183	1.40
	0	56	2.84	94	2.38	121	2.04	143	1.81	160	1.62	174	1.47	185	1.34
	10	63	2.69	99	2.25	125	1.94	146	1.72	162	1.54	176	1.40	186	1.27
	20	70	2.53	104	2.13	129	1.84	149	1.63	164	1.46	178	1.33	188	1.22
	30	76	2.33	109	2.00	133	1.74	152	1.54	167	1.39	180	1.27	190	1.16
	40	83	2.18	113	1.85	136	1.62	155	1.45	169	1.31	182	1.20	191	1.09
	50	90	2.03	119	1.75	140	1.52	158	1.37	172	1.24	184	1.13	193	1.04
	60	97	1.87	124	1.62	145	1.44	161	1.28	175	1.17	186	1.06	195	0.98
	70	101	1.72	129	1.49	149	1.33	164	1.19	178	1.09	188	0.99	196	0.91
1000	—40	23	3.99	67	3.39	100	2.96	125	2.61	145	2.35	160	2.11	173	1.93
	—30	30	3.80	71	3.20	104	2.83	128	2.50	147	2.24	162	2.03	175	1.86
	—20	37	3.61	77	3.07	108	2.71	131	2.39	149	2.14	164	1.94	177	1.80
	—10	44	3.42	82	2.92	111	2.56	134	2.28	152	2.05	166	1.86	178	1.70
	0	51	3.23	87	2.76	116	2.45	137	2.17	154	1.95	168	1.77	180	1.63
	10	58	3.04	92	2.60	119	2.30	140	2.06	157	1.86	170	1.69	182	1.56
	20	65	2.85	98	2.47	124	2.20	144	1.96	160	1.77	172	1.61	184	1.49
	30	72	2.66	104	2.35	128	2.07	147	1.85	162	1.67	175	1.53	186	1.41
	40	79	2.47	109	2.19	132	1.94	150	1.74	165	1.58	177	1.45	188	1.34
	50	86	2.28	115	2.06	136	1.82	154	1.65	168	1.50	180	1.37	190	1.27
	60	94	2.16	121	1.93	141	1.71	158	1.55	171	1.41	183	1.30	192	1.20
	70	102	2.03	127	1.81	146	1.61	161	1.44	174	1.32	186	1.23	194	1.12

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
20 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
259° F.

Number of 4-Row Sections Deep

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	17	4.33	60	3.80	92	3.34	116	2.96	137	2.69	153	2.44	166	2.24
	—30	25	4.18	66	3.65	96	3.19	120	2.85	139	2.57	155	2.34	168	2.15
	—20	32	3.95	71	3.46	100	3.04	123	2.72	142	2.46	157	2.24	170	2.06
	—10	40	3.80	77	3.31	105	2.91	127	2.60	145	2.36	160	2.15	172	1.98
	0	47	3.57	83	3.15	109	2.76	130	2.47	148	2.25	162	2.05	174	1.89
	10	54	3.34	88	2.96	113	2.61	134	2.36	150	2.13	164	1.95	176	1.80
	20	62	3.19	93	2.77	118	2.48	138	2.24	153	2.02	166	1.85	178	1.72
	30	70	3.04	99	2.62	122	2.33	141	2.11	156	1.91	169	1.76	180	1.63
	40	77	2.81	105	2.47	127	2.20	145	2.00	160	1.82	172	1.67	182	1.54
	50	84	2.58	110	2.28	132	2.08	119	1.88	163	1.72	174	1.57	184	1.45
	60	92	2.43	116	2.13	137	1.95	153	1.77	166	1.61	177	1.48	187	1.38
	70	99	2.20	122	1.98	141	1.80	156	1.63	169	1.50	180	1.39	189	1.29
1500	—40	11	4.84	49	4.23	80	3.80	105	3.44	125	3.13	142	2.88	157	2.67
	—30	18	4.56	55	4.03	85	3.64	109	3.30	128	3.00	145	2.77	159	2.56
	—20	26	4.37	62	3.89	90	3.48	113	3.16	132	2.89	148	2.66	161	2.46
	—10	33	4.08	68	3.70	94	3.29	117	3.01	135	2.75	151	2.55	164	2.36
	0	41	3.89	74	3.51	100	3.16	121	2.87	139	2.64	154	2.44	166	2.25
	10	49	3.70	80	3.32	105	3.00	125	2.73	142	2.51	156	2.31	169	2.16
	20	57	3.51	86	3.13	110	2.85	129	2.59	146	2.39	160	2.22	172	2.06
	30	65	3.32	92	2.94	115	2.69	134	2.47	149	2.26	163	2.10	174	1.95
	40	73	3.13	99	2.80	120	2.53	138	2.33	153	2.15	166	1.99	177	1.86
	50	81	2.94	105	2.61	126	2.40	142	2.18	157	2.03	169	1.88	180	1.76
	60	88	2.66	111	2.42	131	2.25	147	2.07	160	1.90	172	1.77	182	1.66
	70	96	2.47	118	2.28	136	2.09	152	1.95	165	1.80	176	1.68	184	1.55
1800	—40	7	5.36	44	4.78	74	4.33	98	3.93	118	3.60	136	3.34	151	3.11
	—30	15	5.13	50	4.57	79	4.14	102	3.76	122	3.47	139	3.21	154	3.00
	—20	23	4.90	57	4.39	84	3.95	106	3.59	126	3.33	142	3.08	156	2.87
	—10	31	4.67	64	4.22	89	3.76	111	3.45	130	3.19	146	2.96	159	2.75
	—0	38	4.33	69	3.93	94	3.57	115	3.28	133	3.03	149	2.83	162	2.64
	10	46	4.11	76	3.76	100	3.42	120	3.14	137	2.90	152	2.70	164	2.51
	20	54	3.87	82	3.54	105	3.23	124	2.96	141	2.76	155	2.56	167	2.39
	30	63	3.76	89	3.36	111	3.08	129	2.82	145	2.62	159	2.45	170	2.28
	40	71	3.53	95	3.14	116	2.80	134	2.68	149	2.49	162	2.32	173	2.17
	50	79	3.31	102	2.96	122	2.74	139	2.54	154	2.37	166	2.20	176	2.05
	60	86	2.96	108	2.74	127	2.55	144	2.39	158	2.24	169	2.07	179	1.94
	70	94	2.74	116	2.62	134	2.43	149	2.25	162	2.10	172	1.94	182	1.82

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
40 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
287° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
600	−40	49	3.46	101	2.74	138	2.31	163	1.97	182	1.73	198	1.54	211	1.40
	−30	52	3.19	104	2.61	140	2.20	164	1.89	184	1.66	199	1.48	212	1.35
	−20	57	3.00	107	2.47	142	2.10	166	1.81	185	1.59	200	1.43	212	1.29
	−10	62	2.80	111	2.35	144	2.00	168	1.73	186	1.52	201	1.37	213	1.24
	0	67	2.61	115	2.21	147	1.90	170	1.65	188	1.46	202	1.31	214	1.19
	10	71	2.49	119	2.12	150	1.82	172	1.58	190	1.40	204	1.26	215	1.14
	20	80	2.33	123	2.00	153	1.72	175	1.51	192	1.34	206	1.21	217	1.10
	30	87	2.22	128	1.90	156	1.63	178	1.41	194	1.28	208	1.15	218	1.05
	40	94	2.10	133	1.81	160	1.56	180	1.36	196	1.21	209	1.10	219	1.00
	50	102	2.02	139	1.73	164	1.48	183	1.29	198	1.15	211	1.04	221	0.95
	60	110	1.94	144	1.63	167	1.39	186	1.22	201	1.10	213	0.99	222	0.90
	70	117	1.83	148	1.52	171	1.31	189	1.16	203	1.03	215	0.94	224	0.86
800	−40	41	4.20	91	3.40	127	2.88	154	2.51	174	2.22	190	1.99	204	1.81
	−30	45	3.89	94	3.22	129	2.75	156	2.41	176	2.13	192	1.92	204	1.73
	−20	51	3.68	98	3.06	133	2.64	158	2.30	177	2.04	193	1.84	206	1.67
	−10	56	3.42	102	2.90	136	2.52	160	2.20	179	1.96	194	1.76	207	1.61
	0	62	3.21	106	2.75	139	2.40	162	2.10	181	1.87	196	1.69	208	1.54
	10	69	3.06	111	2.62	143	2.30	165	2.01	183	1.79	198	1.62	210	1.48
	20	75	2.85	116	2.49	146	2.18	168	1.92	185	1.71	200	1.55	211	1.41
	30	83	2.75	121	2.36	150	2.07	171	1.83	188	1.64	201	1.48	213	1.35
	40	90	2.59	126	2.23	153	1.95	174	1.74	190	1.55	203	1.41	214	1.29
	50	98	2.49	132	2.12	158	1.86	177	1.65	193	1.48	206	1.35	216	1.23
	60	105	2.33	138	2.02	161	1.74	180	1.55	196	1.41	208	1.28	218	1.17
	70	•112	2.18	143	1.89	166	1.66	184	1.48	198	1.33	210	1.21	220	1.11
1000	−40	34	4.80	83	3.99	118	3.41	146	3.01	167	2.68	185	2.43	199	2.21
	−30	40	4.51	87	3.79	121	3.26	148	2.88	169	2.58	187	2.35	200	2.13
	−20	45	4.22	91	3.60	124	3.11	150	2.75	171	2.47	188	2.25	201	2.05
	−10	51	3.96	95	3.40	128	2.98	153	2.64	173	2.37	190	2.16	202	1.96
	0	58	3.76	100	3.24	131	2.83	156	2.53	176	2.28	192	2.07	204	1.89
	10	65	3.57	105	3.08	135	2.70	159	2.41	179	2.19	194	1.99	206	1.81
	20	72	3.37	110	2.92	139	2.57	162	2.30	181	2.09	196	1.90	207	1.73
	30	80	3.24	116	2.79	143	2.44	166	2.20	184	1.99	198	1.82	209	1.66
	40	87	3.05	121	2.62	148	2.33	169	2.09	187	1.90	200	1.73	211	1.58
	50	94	2.85	127	2.49	152	2.20	173	1.99	190	1.81	202	1.64	213	1.51
	60	102	2.72	133	2.37	157	2.09	177	1.89	192	1.71	204	1.56	215	1.43
	70	109	2.53	138	2.20	161	1.96	180	1.78	195	1.62	207	1.48	217	1.36

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
40 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
287° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep													
		1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	26	5.13	74	4.43	108	3.84	136	3.42	159	3.10	176	2.80	191	2.57
	—30	32	4.82	78	4.20	112	3.68	139	3.28	161	2.97	178	2.70	192	2.47
	—20	39	4.59	83	4.00	116	3.53	142	3.15	163	2.85	180	2.59	194	2.38
	—10	46	4.36	88	3.81	120	3.37	146	3.03	166	2.74	182	2.49	195	2.28
	0	54	4.20	94	3.65	124	3.22	150	2.92	169	2.63	184	2.39	198	2.20
	10	61	3.97	98	3.42	128	3.06	153	2.78	171	2.51	186	2.28	199	2.10
	20	70	3.89	105	3.30	134	2.96	156	2.64	174	2.40	189	2.19	201	2.01
	30	77	3.66	111	3.15	138	2.80	160	2.53	177	2.29	192	2.10	203	1.92
	40	84	3.42	116	2.95	143	2.67	164	2.41	180	2.18	194	2.00	205	1.83
	50	91	3.19	122	2.80	148	2.54	167	2.27	183	2.07	196	1.89	207	1.74
	60	98	2.95	128	2.64	152	2.38	171	2.16	186	1.96	199	1.80	209	1.66
	70	105	2.72	134	2.49	156	2.23	174	2.02	189	1.85	201	1.70	212	1.58
1500	—40	19	5.74	63	5.00	96	4.40	123	3.96	145	3.60	163	3.29	178	3.03
	—30	25	5.35	68	4.76	100	4.21	126	3.79	147	3.44	165	3.16	180	2.92
	—20	33	5.15	74	4.57	105	4.05	130	3.65	151	3.32	168	3.04	182	2.80
	—10	40	4.86	79	4.32	109	3.86	133	3.48	154	3.19	170	2.91	184	2.69
	0	47	4.57	85	4.13	114	3.69	138	3.36	157	3.05	173	2.80	186	2.58
	10	56	4.47	91	3.94	119	3.53	141	3.18	160	2.92	175	2.67	189	2.49
	20	64	4.28	97	3.74	123	3.34	146	3.06	163	2.78	178	2.56	191	2.37
	30	72	4.08	104	3.59	129	3.20	150	2.92	167	2.66	181	2.45	194	2.28
	40	79	3.79	109	3.35	133	3.01	154	2.77	170	2.53	184	2.33	196	2.17
	50	87	3.60	115	3.16	139	2.88	158	2.62	174	2.41	187	2.22	198	2.08
	60	94	3.30	121	2.96	144	2.72	162	2.48	177	2.27	190	2.11	201	1.96
	70	102	3.11	127	2.77	148	2.52	166	2.34	180	2.14	193	1.99	203	1.85
1800	—40	14	6.30	54	5.48	88	4.97	115	4.52	137	4.13	156	3.80	172	3.53
	—30	20	5.83	60	5.25	92	4.74	118	4.32	140	3.97	158	3.65	174	3.40
	—20	28	5.60	66	5.02	97	4.55	122	4.14	144	3.83	161	3.51	176	3.27
	—10	35	5.25	72	4.78	102	4.35	126	3.96	147	3.66	164	3.38	178	3.13
	0	43	5.02	79	4.61	107	4.16	131	3.82	151	3.52	167	3.24	181	3.02
	10	51	4.78	86	4.43	113	4.00	136	3.67	155	3.38	170	3.10	184	2.90
	20	60	4.67	92	4.20	118	3.81	140	3.50	158	3.22	174	2.99	187	2.78
	30	68	4.43	99	4.02	123	3.61	145	3.35	162	3.08	177	2.85	190	2.67
	40	76	4.20	105	3.79	129	3.46	149	3.18	166	2.94	180	2.72	192	2.53
	50	84	3.97	112	3.62	135	3.30	154	3.03	170	2.80	184	2.60	195	2.42
	60	92	3.73	118	3.38	140	3.11	158	2.86	174	2.66	187	2.46	198	2.30
	70	100	3.50	125	3.21	146	2.95	163	2.71	178	2.52	190	2.33	201	2.18

Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
80 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
324° F.

Number of 4-Row Sections Deep

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
600	−40	67	4.26	124	3.26	164	2.71	193	2.32	215	2.03	231	1.80	244	1.62
	−30	71	4.02	126	3.11	165	2.59	194	2.23	216	1.96	232	1.74	245	1.56
	−20	74	3.74	128	2.95	167	2.48	195	2.14	217	1.89	233	1.68	245	1.51
	−10	80	3.58	132	2.83	169	2.38	197	2.06	218	1.82	234	1.62	246	1.46
	0	84	3.35	135	2.69	172	2.28	199	1.98	219	1.74	235	1.56	247	1.40
	10	89	3.15	139	2.57	174	2.18	201	1.90	221	1.68	236	1.50	248	1.35
	20	95	2.99	143	2.45	177	2.08	203	1.82	223	1.62	237	1.44	249	1.30
	30	100	2.79	147	2.33	180	1.99	205	1.74	224	1.54	238	1.38	250	1.25
	40	107	2.67	151	2.21	184	1.91	207	1.66	226	1.48	240	1.33	251	1.20
	50	113	2.51	156	2.11	187	1.82	210	1.59	228	1.42	241	1.27	252	1.15
	60	119	2.35	160	1.99	190	1.73	213	1.52	230	1.35	243	1.21	254	1.10
	70	125	2.19	165	1.89	193	1.63	215	1.44	232	1.29	244	1.15	255	1.05
800	−40	56	5.10	114	4.09	154	3.43	183	2.96	205	2.60	223	2.33	237	2.10
	−30	61	4.83	118	3.93	157	3.31	185	2.85	207	2.52	224	2.25	238	2.03
	−20	67	4.67	121	3.75	159	3.17	187	2.75	208	2.42	225	2.17	239	1.96
	−10	72	4.35	124	3.56	161	3.03	189	2.64	209	2.33	226	2.09	240	1.90
	0	78	4.14	129	3.43	165	2.92	191	2.53	211	2.24	228	2.02	241	1.83
	10	85	3.98	133	3.27	168	2.80	194	2.44	213	2.16	229	1.94	242	1.76
	20	91	3.77	138	3.13	171	2.67	196	2.33	215	2.07	231	1.87	243	1.69
	30	97	3.56	142	2.97	174	2.55	198	2.23	217	1.99	232	1.79	244	1.62
	40	103	3.34	146	2.81	177	2.42	201	2.14	219	1.90	234	1.72	246	1.56
	50	110	3.19	151	2.68	181	2.32	203	2.03	221	1.82	235	1.64	247	1.49
	60	117	3.03	156	2.55	185	2.21	206	1.94	224	1.74	237	1.57	248	1.43
	70	123	2.81	161	2.42	188	2.09	209	1.85	226	1.66	239	1.50	250	1.36
1000	−40	48	5.84	105	4.81	145	4.10	174	3.55	197	3.15	215	2.82	229	2.55
	−30	54	5.58	109	4.61	148	3.94	176	3.42	199	3.04	217	2.73	231	2.48
	−20	60	5.31	113	4.42	150	3.76	179	3.30	200	2.92	218	2.63	232	2.39
	−10	65	4.98	117	4.22	154	3.63	181	3.17	202	2.81	219	2.54	233	2.30
	0	73	4.85	122	4.05	157	3.47	183	3.04	204	2.71	221	2.45	234	2.22
	10	79	4.58	126	3.85	160	3.32	186	2.92	206	2.60	223	2.36	236	2.14
	20	86	4.38	131	3.68	164	3.19	189	2.81	208	2.50	224	2.26	237	2.06
	30	93	4.18	136	3.52	167	3.03	191	2.67	210	2.39	226	2.17	239	1.98
	40	99	3.92	140	3.32	171	2.90	194	2.55	213	2.30	228	2.08	240	1.90
	50	106	3.73	145	3.15	175	2.77	197	2.44	215	2.19	230	1.99	241	1.81
	60	113	3.52	150	2.99	179	2.63	200	2.32	218	2.08	232	1.91	243	1.74
	70	120	3.32	156	2.85	183	2.50	203	2.21	220	1.99	234	1.81	244	1.65

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters
(All Types Except Return Bend)

Steam Pressure
80 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature
324° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	−40	39	6.30	95	5.38	135	4.63	165	4.08	187	3.62	206	3.27	221	2.97
	−30	45	5.99	100	5.18	138	4.45	167	3.92	189	3.49	208	3.16	223	2.88
	−20	53	5.82	105	4.98	142	4.29	170	3.78	192	3.38	210	3.05	225	2.79
	−10	61	5.66	110	4.78	146	4.13	173	3.65	194	3.25	212	2.95	226	2.68
	0	67	5.34	114	4.51	149	3.95	175	3.48	196	3.12	213	2.83	227	2.58
	10	75	5.18	120	4.38	154	3.81	179	3.37	199	3.01	216	2.73	229	2.49
	20	81	4.86	125	4.18	157	3.63	181	3.21	201	2.88	217	2.62	231	2.40
	30	89	4.70	130	3.98	161	3.47	185	3.09	204	2.77	220	2.52	233	2.31
	40	96	4.46	135	3.69	165	3.31	188	2.95	207	2.66	222	2.42	235	2.22
	50	103	4.22	140	3.49	169	3.15	191	2.81	209	2.53	224	2.31	237	2.13
	60	109	3.90	145	3.30	173	2.99	194	2.67	211	2.40	226	2.20	238	2.03
	70	116	3.66	150	3.10	177	2.83	197	2.53	214	2.29	228	2.10	240	1.93
1500	−40	30	6.98	80	5.98	117	5.21	147	4.66	171	4.20	191	3.84	207	3.51
	−30	36	6.57	85	5.73	121	5.01	151	4.51	174	4.06	193	3.70	209	3.40
	−20	43	6.28	90	5.48	125	4.81	154	4.33	177	3.92	195	3.57	211	3.29
	−10	51	6.08	96	5.28	130	4.65	158	4.18	180	3.78	198	3.45	213	3.17
	0	58	5.78	102	5.08	135	4.48	161	4.01	183	3.65	201	3.34	216	3.07
	10	66	5.58	106	4.78	139	4.28	166	3.88	185	3.49	203	3.20	219	2.97
	20	72	5.18	112	4.58	143	4.08	168	3.68	188	3.35	205	3.07	221	2.86
	30	80	4.98	117	4.33	147	3.88	171	3.51	191	3.21	207	2.94	223	2.75
	40	87	4.68	123	4.13	152	3.72	175	3.36	194	3.07	210	2.82	225	2.63
	50	95	4.48	129	3.93	157	3.55	179	3.21	197	2.93	213	2.70	227	2.52
	60	102	4.18	135	3.73	162	3.39	183	3.06	201	2.81	217	2.60	230	2.42
	70	110	3.98	142	3.58	167	3.22	188	2.94	205	2.69	221	2.51	233	2.32
1800	−40	22	7.41	71	6.63	109	5.93	139	5.34	163	4.85	183	4.44	200	4.10
	−30	30	7.17	78	6.45	114	5.73	142	5.14	166	4.68	186	4.30	202	3.96
	−20	38	6.81	84	6.21	118	5.49	146	4.96	170	4.54	188	4.14	204	3.83
	−10	46	6.69	89	5.91	123	5.29	150	4.78	172	4.35	191	4.00	207	3.71
	0	54	6.45	96	5.73	128	5.14	154	4.60	176	4.20	194	3.86	208	3.55
	10	62	6.21	102	5.50	133	4.90	158	4.42	179	4.01	197	3.72	212	3.45
	20	70	5.97	107	5.20	137	4.66	162	4.24	182	3.87	199	3.56	214	3.31
	30	77	5.61	114	5.02	142	4.46	166	4.06	186	3.73	202	3.42	216	3.18
	40	85	5.48	119	4.72	147	4.26	170	3.88	189	3.56	205	3.28	218	3.04
	50	93	5.14	126	4.54	152	4.06	175	3.73	193	3.42	208	3.14	220	2.90
	60	100	4.78	132	4.30	157	3.86	178	3.52	196	3.25	211	3.03	223	2.78
	70	107	4.42	137	4.00	162	3.66	182	3.34	199	3.08	214	2.87	226	2.66

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
0 Pounds Gauge

Steam Temperature
212° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
600	-40	-1	2.36	27	2.03	50	1.81	68	1.63	84	1.55	97	1.38	108	1.28	119	1.20	127	1.12	134	1.05
	-30	6	2.18	33	1.91	54	1.69	72	1.54	87	1.41	100	1.31	111	1.22	121	1.14	129	1.07	136	1.00
	-20	12	1.93	38	1.75	59	1.59	76	1.45	90	1.33	102	1.23	113	1.15	123	1.08	130	1.01	137	0.95
	-10	20	1.81	44	1.63	64	1.49	80	1.36	94	1.26	105	1.16	116	1.09	125	1.02	132	0.96	139	0.90
	0	27	1.63	50	1.51	69	1.39	84	1.27	98	1.19	109	1.10	119	1.03	127	0.96	134	0.90	141	0.85
	10	36	1.57	57	1.42	74	1.29	89	1.19	101	1.10	112	1.03	122	0.97	130	0.91	137	0.85	142	0.80
	20	44	1.45	64	1.33	80	1.21	94	1.12	105	1.03	116	0.97	125	0.91	132	0.85	139	0.80	144	0.75
	30	52	1.33	71	1.24	86	1.13	99	1.04	110	0.97	120	0.91	128	0.85	135	0.79	141	0.75	147	0.71
	40	60	1.21	78	1.15	92	1.05	103	0.95	114	0.90	124	0.85	131	0.79	138	0.74	144	0.70	149	0.66
	50	68	1.09	84	1.03	97	0.95	108	0.88	119	0.83	127	0.78	134	0.73	140	0.68	146	0.65	151	0.61
	60	77	1.03	92	0.97	103	0.87	114	0.82	124	0.77	131	0.72	138	0.67	144	0.64	149	0.60	154	0.57
	70	86	0.97	98	0.85	110	0.81	120	0.76	128	0.70	135	0.65	141	0.61	147	0.58	152	0.55	156	0.52
800	-40	-5	2.82	21	2.46	43	2.23	62	2.06	77	1.89	90	1.75	101	1.63	112	1.53	120	1.43	128	1.36
	-30	3	2.66	29	2.38	49	2.12	67	1.95	82	1.81	94	1.67	104	1.54	114	1.45	122	1.36	130	1.29
	-20	9	2.34	33	2.14	53	1.96	70	1.81	85	1.70	96	1.56	107	1.46	117	1.38	125	1.30	132	1.23
	-10	17	2.18	40	2.02	59	1.85	75	1.71	88	1.58	99	1.47	109	1.37	119	1.30	127	1.23	134	1.16
	0	25	2.02	47	1.90	65	1.75	80	1.61	92	1.48	103	1.39	113	1.30	121	1.22	129	1.16	136	1.10
	10	34	1.94	54	1.77	71	1.64	85	1.51	96	1.39	107	1.30	117	1.23	125	1.16	132	1.09	138	1.03
	20	43	1.86	61	1.65	77	1.53	90	1.41	101	1.31	111	1.22	120	1.15	127	1.08	135	1.03	141	0.98
	30	51	1.69	68	1.53	83	1.43	95	1.31	105	1.21	115	1.14	123	1.07	131	1.02	137	0.96	143	0.91
	40	59	1.53	75	1.41	88	1.29	99	1.19	110	1.13	119	1.06	127	1.00	134	0.95	140	0.90	146	0.86
	50	68	1.45	83	1.33	95	1.21	105	1.11	115	1.05	123	0.98	131	0.93	137	0.88	143	0.83	149	0.80
	60	76	1.29	89	1.17	100	1.08	110	1.01	119	0.95	127	0.90	134	0.85	141	0.82	143	0.78	151	0.73
	70	84	1.13	96	1.05	106	0.97	116	0.93	124	0.87	132	0.83	138	0.78	141	0.75	149	0.71	154	0.68
1000	-40	-8	3.23	18	2.93	39	2.66	57	2.45	72	2.26	86	2.12	98	1.99	107	1.85	116	1.75	124	1.66
	-30	0	3.03	25	2.78	45	2.52	62	2.32	76	2.14	89	2.00	101	1.89	110	1.77	118	1.66	126	1.61
	-20	8	2.83	31	2.57	50	2.35	66	2.17	80	2.02	93	1.90	104	1.79	112	1.66	121	1.58	128	1.53
	-10	16	2.62	37	2.37	56	2.22	71	2.04	85	1.92	97	1.80	106	1.67	115	1.58	123	1.49	131	1.42
	0	25	2.52	45	2.27	62	2.09	76	1.92	89	1.80	101	1.70	110	1.59	118	1.49	126	1.41	133	1.34
	10	33	2.32	51	2.07	67	1.92	81	1.79	94	1.70	104	1.58	113	1.49	121	1.40	129	1.33	135	1.26
	20	41	2.12	59	1.97	73	1.78	87	1.69	99	1.59	108	1.48	117	1.40	125	1.32	132	1.26	138	1.19
	30	49	1.92	65	1.77	79	1.65	92	1.56	103	1.47	111	1.36	120	1.30	128	1.24	135	1.18	140	1.11
	40	58	1.82	73	1.67	86	1.55	98	1.46	107	1.35	116	1.28	124	1.21	131	1.15	137	1.09	143	1.04
	50	66	1.62	80	1.51	93	1.45	103	1.34	112	1.25	121	1.19	128	1.12	135	1.07	141	1.02	146	0.97
	60	74	1.46	88	1.41	99	1.31	109	1.24	117	1.15	125	1.09	132	1.04	138	0.98	143	0.93	148	0.89
	70	83	1.36	96	1.31	106	1.21	115	1.14	123	1.07	130	1.01	136	0.95	142	0.91	147	0.86	152	0.83

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
0 Pounds Gauge

Steam Temperature
212° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	—12	3.39	12	3.15	33	2.82	50	2.72	66	2.57	79	2.38	90	2.25	100	2.12	109	2.00	117	1.90
	—30	—3	3.26	20	3.03	39	2.78	55	2.57	71	2.45	83	2.28	94	2.14	103	2.01	112	1.91	120	1.81
	—20	6	3.15	27	2.84	45	2.62	62	2.48	75	2.30	88	2.18	97	2.02	106	1.91	114	1.80	122	1.72
	—10	14	2.90	34	2.66	51	2.46	66	2.30	80	2.18	91	2.04	100	1.90	109	1.79	117	1.71	125	1.63
	0	22	2.66	41	2.48	57	2.30	72	2.18	85	2.06	95	1.91	104	1.80	113	1.71	121	1.63	128	1.55
	10	31	2.54	48	2.30	61	2.18	78	2.05	89	1.92	99	1.79	108	1.70	116	1.60	124	1.53	131	1.46
	20	39	2.30	55	2.12	71	2.05	83	1.90	91	1.80	103	1.67	112	1.59	120	1.51	127	1.44	134	1.38
	30	48	2.17	63	1.99	77	1.89	89	1.78	98	1.65	107	1.55	116	1.48	124	1.42	130	1.35	137	1.29
	40	56	1.99	71	1.87	84	1.77	94	1.63	104	1.55	112	1.45	120	1.38	128	1.33	134	1.27	140	1.21
	50	66	1.93	79	1.75	90	1.61	100	1.51	109	1.43	117	1.35	125	1.29	132	1.24	138	1.18	143	1.12
	60	75	1.81	87	1.63	96	1.45	106	1.39	111	1.31	122	1.25	129	1.19	136	1.15	141	1.09	146	1.04
	70	83	1.57	93	1.39	103	1.33	111	1.24	120	1.21	127	1.15	133	1.09	139	1.04	144	0.99	149	0.96
1500	—40	—15	3.85	7	3.55	25	3.27	42	3.10	57	2.93	70	2.77	80	2.59	90	2.45	100	2.35	109	2.25
	—30	—5	3.78	15	3.40	32	3.12	48	2.95	63	2.80	74	2.62	85	2.48	95	2.36	104	2.25	112	2.14
	—20	3	3.47	22	3.17	38	2.92	54	2.80	67	2.63	78	2.47	89	2.36	98	2.23	107	2.13	115	2.04
	—10	11	3.17	28	2.87	45	2.77	60	2.64	72	2.48	82	2.31	93	2.32	102	2.11	110	2.01	118	1.93
	0	20	3.02	36	2.72	52	2.62	66	2.49	77	2.32	87	2.19	97	2.09	106	2.00	114	1.91	121	1.83
	10	28	2.72	41	2.56	59	2.46	71	2.30	82	2.18	92	2.06	101	1.96	110	1.88	118	1.81	124	1.72
	20	36	2.49	52	2.41	66	2.31	77	2.15	88	2.05	97	1.94	104	1.81	114	1.77	121	1.69	128	1.63
	30	46	2.42	61	2.34	73	2.16	83	2.00	94	1.93	102	1.81	111	1.75	118	1.66	125	1.59	131	1.52
	40	55	2.26	68	2.11	79	1.96	90	1.88	99	1.78	108	1.71	116	1.64	123	1.57	129	1.49	135	1.43
	50	64	2.11	75	1.88	86	1.81	96	1.74	105	1.66	114	1.61	120	1.51	127	1.45	133	1.39	138	1.33
	60	72	1.81	82	1.66	92	1.61	102	1.58	110	1.51	118	1.46	125	1.40	131	1.34	136	1.27	141	1.22
	70	81	1.66	91	1.55	100	1.51	109	1.47	117	1.42	124	1.36	130	1.29	136	1.24	141	1.19	145	1.13
1800	—40	—17	4.18	2	3.81	21	3.69	36	3.45	51	3.30	63	3.12	75	2.98	85	2.84	95	2.72	103	2.60
	—30	—8	4.00	11	3.72	28	3.51	43	3.31	56	3.12	68	2.97	80	2.85	90	2.72	98	2.58	106	2.47
	—20	0	3.63	19	3.54	34	3.27	49	3.13	61	2.94	73	2.81	84	2.69	94	2.59	102	2.46	110	2.36
	—10	9	3.45	26	3.27	41	3.08	55	2.95	67	2.79	78	2.66	89	2.57	98	2.45	106	2.34	113	2.23
	0	19	3.36	34	3.09	49	2.96	61	2.77	73	2.65	84	2.51	94	2.44	102	2.31	110	2.22	117	2.12
	10	27	3.09	42	2.90	56	2.78	68	2.63	79	2.50	89	2.39	98	2.28	106	2.18	114	2.10	120	2.00
	20	36	2.90	50	2.72	62	2.54	74	2.45	85	2.36	94	2.24	102	2.13	111	2.07	118	1.98	124	1.89
	30	45	2.72	58	2.54	70	2.42	82	2.36	91	2.21	100	2.12	108	2.02	115	1.93	122	1.86	128	1.78
	40	54	2.54	66	2.36	78	2.30	88	2.18	97	2.07	105	1.97	113	1.89	120	1.81	126	1.74	132	1.67
	50	62	2.45	74	2.18	85	2.12	94	2.00	102	1.89	110	1.82	118	1.76	124	1.68	130	1.61	135	1.54
	60	72	2.18	83	2.09	92	1.93	101	1.86	109	1.78	116	1.69	123	1.63	129	1.57	134	1.49	139	1.43
	70	81	2.00	91	1.86	100	1.81	108	1.72	115	1.63	122	1.57	128	1.50	134	1.45	139	1.39	143	1.32

*Final temperature of air leaving heater.

Consendation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
5 Pounds Gauge

Steam Temperature
227° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep: 1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
600	—40	2	2.56	33	2.21	58	1.99	79	1.82	95	1.65	109	1.51	121	1.40	131	1.30	140	1.22	146	1.13
	—30	8	2.32	37	2.04	61	1.85	82	1.71	98	1.56	111	1.43	123	1.33	132	1.24	141	1.16	149	1.09
	—20	16	2.19	44	1.95	67	1.76	86	1.62	101	1.48	114	1.36	125	1.26	134	1.17	143	1.10	151	1.04
	—10	23	2.01	49	1.80	72	1.66	90	1.52	105	1.40	117	1.29	127	1.19	136	1.11	145	1.05	152	0.99
	0	31	1.89	56	1.71	77	1.56	94	1.43	108	1.32	120	1.22	130	1.13	139	1.06	147	1.00	154	0.94
	10	39	1.77	63	1.62	83	1.48	99	1.36	112	1.24	123	1.15	133	1.07	141	1.00	149	0.94	156	0.89
	20	47	1.65	69	1.49	88	1.38	103	1.27	116	1.17	126	1.08	136	1.01	144	0.95	152	0.89	158	0.84
	30	56	1.59	77	1.43	94	1.30	108	1.19	120	1.10	130	1.02	139	0.95	147	0.89	154	0.84	160	0.79
	40	64	1.46	83	1.31	99	1.20	113	1.11	121	1.02	133	0.95	142	0.89	150	0.84	156	0.79	162	0.74
	50	72	1.34	90	1.22	105	1.12	117	1.02	128	0.95	137	0.88	145	0.83	152	0.78	159	0.74	164	0.70
	60	80	1.22	97	1.13	110	1.01	122	0.95	132	0.88	141	0.82	149	0.78	155	0.72	161	0.68	166	0.65
	70	88	1.10	103	1.01	116	0.93	125	0.84	136	0.80	145	0.76	152	0.71	158	0.67	164	0.64	168	0.60
800	-40	0	3.26	28	2.78	51	2.47	70	2.24	87	2.07	101	1.91	113	1.78	123	1.66	133	1.57	141	1.47
	—30	6	2.93	33	2.70	56	2.33	74	2.12	90	1.96	104	1.82	115	1.69	125	1.58	134	1.48	142	1.40
	—20	13	2.69	39	2.41	60	2.17	78	2.00	94	1.86	107	1.72	118	1.61	127	1.50	137	1.42	144	1.34
	-10	20	2.44	45	2.25	65	2.03	83	1.89	97	1.74	110	1.63	120	1.51	130	1.43	139	1.35	146	1.27
	0	28	2.28	52	2.12	70	1.90	88	1.79	101	1.65	113	1.53	123	1.43	133	1.35	141	1.28	148	1.21
	10	36	2.12	58	1.96	77	1.82	92	1.67	106	1.56	117	1.45	126	1.35	136	1.28	144	1.21	150	1.14
	20	45	2.01	65	1.84	83	1.71	97	1.57	110	1.47	120	1.36	130	1.28	139	1.21	146	1.14	153	1.08
	30	53	1.87	72	1.71	88	1.57	102	1.16	114	1.37	124	1.28	133	1.20	142	1.14	149	1.08	155	1.02
	40	61	1.71	79	1.59	94	1.47	107	1.36	118	1.27	128	1.19	137	1.13	144	1.06	151	0.05	157	0.95
	50	70	1.63	86	1.47	100	1.36	113	1.28	122	1.17	132	1.11	141	1.06	148	0.99	154	0.94	160	0.90
	60	78	1.53	91	1.39	107	1.28	118	1.18	128	1.10	137	1.05	144	0.98	151	0.93	157	0.87	162	0.83
	70	86	1.30	100	1.22	113	1.17	122	1.06	132	1.01	141	0.96	148	0.91	154	0.85	160	0.81	165	0.77
1000	—40	—5	3.59	23	3.23	45	2.90	64	2.67	81	2.48	96	2.33	107	2.15	118	2.02	127	1.91	136	1.80
	—30	3	3.38	30	3.08	50	2.73	69	2.54	85	2.36	99	2.21	110	2.05	121	1.93	129	1.81	138	1.72
	—20	11	3.18	35	2.82	55	2.56	73	2.38	89	2.23	102	2.09	113	1.95	123	1.83	131	1.72	140	1.64
	-10	19	2.97	41	2.61	61	2.43	78	2.25	93	2.11	105	1.97	116	1.85	126	1.74	134	1.64	142	1.56
	0	27	2.77	48	2.46	67	2.29	84	2.15	97	1.99	109	1.86	120	1.76	128	1.64	137	1.56	145	1.49
	10	35	2.56	55	2.31	73	2.15	89	2.02	101	1.86	113	1.76	123	1.66	131	1.55	140	1.48	147	1.40
	20	43	2.36	62	2.15	79	2.02	96	1.95	106	1.76	117	1.66	126	1.55	135	1.47	143	1.40	149	1.32
	30	51	2.15	69	2.00	86	1.91	99	1.77	110	1.64	121	1.55	129	1.45	138	1.38	145	1.31	151	1.24
	40	60	2.05	77	1.90	92	1.78	105	1.67	116	1.56	125	1.45	134	1.38	142	1.30	148	1.23	154	1.17
	50	69	1.95	85	1.79	99	1.67	110	1.51	120	1.43	131	1.38	138	1.29	145	1.22	152	1.16	157	1.10
	60	77	1.74	92	1.64	105	1.54	116	1.43	125	1.33	134	1.26	142	1.20	148	1.13	154	1.07	160	1.02
	70	86	1.64	99	1.49	111	1.40	121	1.31	130	1.23	138	1.16	146	1.11	152	1.05	157	0.99	163	0.95

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
5 Pounds Gauge

Steam Temperature
227° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
1200	—40	—9	3.79	16	3.41	38	3.17	57	2.96	73	2.76	87	2.58	100	2.41	111	2.31	120	2.17	130	2.07
	—30	—1	3.54	24	3.29	44	3.01	62	2.81	77	2.61	91	2.46	104	2.34	114	2.20	123	2.07	132	1.98
	—20	7	3.30	30	3.05	50	2.85	67	2.65	81	2.46	95	2.34	107	2.21	117	2.09	126	1.98	134	1.88
	—10	15	3.05	37	2.86	56	2.68	72	2.50	86	2.34	100	2.24	110	2.10	120	1.98	129	1.89	137	1.79
	0	24	2.93	45	2.74	62	2.52	78	2.38	92	2.25	104	2.12	114	1.99	124	1.89	132	1.79	140	1.71
	10	33	2.81	52	2.56	69	2.40	83	2.23	96	2.10	108	1.99	118	1.88	127	1.78	136	1.70	143	1.62
	20	41	2.57	60	2.44	75	2.24	88	2.07	102	2.00	112	1.87	122	1.78	131	1.69	138	1.60	145	1.52
	30	50	2.44	67	2.26	81	2.07	95	1.98	107	1.88	117	1.77	126	1.67	134	1.59	142	1.52	148	1.44
	40	58	2.20	71	2.01	88	1.95	102	1.89	112	1.76	121	1.65	130	1.57	138	1.49	115	1.42	151	1.35
	50	67	2.07	81	1.89	95	1.83	107	1.74	117	1.68	126	1.51	134	1.46	142	1.40	118	1.33	154	1.27
	60	75	1.83	89	1.77	102	1.71	112	1.59	122	1.51	131	1.44	139	1.38	145	1.29	152	1.25	157	1.18
	70	84	1.71	97	1.65	109	1.58	118	1.46	128	1.41	136	1.34	143	1.27	149	1.20	155	1.15	160	1.10
1500	—40	—12	4.27	12	3.96	32	3.66	49	3.39	64	3.17	78	3.00	91	2.85	101	2.69	110	2.54	119	2.43
	—30	—4	3.96	19	3.74	37	3.41	54	3.20	69	3.02	82	2.85	95	2.72	104	2.50	114	2.44	123	2.33
	—20	5	3.81	25	3.43	43	3.20	59	3.01	73	2.83	87	2.72	98	2.57	108	2.41	117	2.32	126	2.23
	—10	13	3.50	33	2.28	50	3.05	65	2.86	79	2.71	91	2.57	102	2.44	111	2.31	121	2.22	129	2.12
	0	21	3.20	40	3.05	56	2.85	71	2.70	84	2.56	96	2.41	106	2.31	115	2.19	124	2.10	132	2.01
	10	30	3.05	47	2.82	63	2.70	77	2.56	90	2.44	101	2.31	110	2.18	119	2.08	128	2.00	136	1.92
	20	39	2.90	55	2.67	69	2.49	83	2.40	96	2.32	105	2.16	115	2.07	123	1.96	131	1.88	139	1.81
	30	47	2.59	63	2.52	77	2.39	90	2.29	101	2.16	110	2.03	119	1.94	128	1.87	135	1.78	142	1.71
	40	56	2.44	71	2.36	84	2.24	96	2.14	106	2.01	116	1.93	125	1.85	133	1.77	140	1.69	146	1.62
	50	65	2.29	79	2.21	92	2.14	102	1.98	111	1.86	121	1.80	129	1.72	137	1.64	143	1.57	149	1.51
	60	74	2.13	87	2.06	99	1.98	108	1.83	117	1.74	126	1.68	134	1.61	141	1.54	147	1.49	153	1.42
	70	84	2.06	96	1.98	106	1.83	115	1.71	124	1.65	132	1.57	139	1.50	145	1.43	154	1.37	157	1.33
1800	—40	—14	4.76	8	4.39	27	4.09	44	3.84	59	3.62	73	3.45	85	3.27	96	3.11	106	2.96	115	2.84
	—30	—6	4.39	15	4.12	33	3.84	50	3.66	64	3.44	77	3.26	90	3.14	100	2.98	109	2.82	118	2.71
	—20	3	4.21	22	3.84	40	3.66	56	3.48	69	3.26	82	3.11	96	3.03	104	2.84	113	2.70	121	2.58
	—10	11	3.84	30	3.66	47	3.48	61	3.25	75	3.11	88	2.99	98	2.82	108	2.70	116	2.56	124	2.45
	0	20	3.66	37	3.38	54	3.29	67	3.07	80	2.93	92	2.81	102	2.67	112	2.56	120	2.44	128	2.34
	10	28	3.29	46	3.25	61	3.11	74	2.93	87	2.82	97	2.65	107	2.54	116	2.43	124	2.32	131	2.22
	20	37	3.11	54	3.06	67	2.87	80	2.75	92	2.64	102	2.50	112	2.40	120	2.29	128	2.19	135	2.10
	30	46	2.93	61	2.84	75	2.74	88	2.65	98	2.49	108	2.38	116	2.25	124	2.15	132	2.07	138	1.98
	40	55	2.75	69	2.65	82	2.56	94	2.47	104	2.34	113	2.23	121	2.12	129	2.04	136	1.95	142	1.87
	50	64	2.56	77	2.47	90	2.44	100	2.29	109	2.16	118	2.07	126	1.99	133	1.90	139	1.81	145	1.74
	60	73	2.38	86	2.33	97	2.26	106	2.10	115	2.01	124	1.95	131	1.86	138	1.78	144	1.71	149	1.63
	70	82	2.29	95	2.24	104	2.07	113	1.97	122	1.90	129	1.80	136	1.72	142	1.65	148	1.59	153	1.52

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure | **Steam Temperature**
10 Pounds Gauge | 240° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7		8		9		10	
		F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.
600	−40	8	2.97	40	2.47	65	2.17	86	1.95	104	1.79	118	1.63	130	1.50	141	1.40	150	1.31	158	1.2
	−30	15	2.85	45	2.32	69	2.04	90	1.86	107	1.70	120	1.55	132	1.43	142	1.33	151	1.25	159	1.1
	−20	21	2.54	49	2.13	73	1.92	93	1.75	110	1.61	123	1.47	134	1.36	144	1.27	153	1.19	160	1.1
	−10	27	2.29	55	2.01	77	1.80	96	1.64	112	1.51	125	1.39	136	1.29	146	1.21	154	1.13	162	1.0
	0	34	2.10	60	1.86	82	1.69	101	1.56	116	1.44	128	1.32	139	1.23	148	1.15	156	1.07	164	1.01
	10	41	1.92	66	1.73	87	1.59	104	1.46	119	1.35	131	1.25	141	1.16	150	1.08	158	1.02	165	0.9
	20	49	1.79	72	1.61	92	1.49	109	1.38	122	1.26	134	1.17	144	1.10	152	1.02	160	0.96	167	0.91
	30	57	1.67	80	1.55	98	1.40	114	1.30	126	1.19	138	1.11	147	1.01	155	0.97	162	0.91	169	0.8
	40	65	1.55	86	1.42	104	1.32	118	1.21	130	1.12	141	1.01	150	0.97	158	0.91	165	0.86	171	0.81
	50	74	1.48	93	1.33	110	1.24	123	1.13	134	1.04	144	0.97	153	0.91	161	0.86	168	0.81	173	0.76
	60	82	1.36	100	1.21	116	1.16	128	1.05	139	0.98	148	0.91	156	0.85	164	0.81	170	0.76	176	0.72
	70	90	1.24	107	1.14	121	1.05	132	0.96	143	0.91	152	0.84	159	0.79	166	0.74	172	0.70	178	0.67
800	−40	1	3.38	32	2.97	57	2.67	78	2.43	96	2.24	110	2.06	122	1.91	133	1.78	143	1.68	152	1.58
	−30	8	3.13	37	2.76	61	2.50	82	2.31	99	2.13	112	1.95	124	1.82	135	1.70	144	1.59	153	1.51
	−20	16	2.97	42	2.56	67	2.39	86	2.18	102	2.01	116	1.87	127	1.74	138	1.63	147	1.53	155	1.44
	−10	23	2.72	49	2.43	72	2.25	90	2.06	105	1.90	118	1.76	130	1.65	140	1.54	149	1.46	157	1.38
	0	31	2.56	56	2.31	77	2.12	95	1.96	109	1.80	122	1.68	132	1.56	142	1.46	151	1.38	159	1.31
	10	39	2.39	62	2.14	83	2.01	99	1.83	113	1.70	125	1.58	136	1.49	145	1.39	154	1.32	161	1.24
	20	47	2.22	70	2.06	89	1.90	104	1.73	117	1.60	128	1.49	139	1.41	148	1.32	156	1.25	163	1.18
	30	55	2.06	77	1.94	94	1.76	109	1.63	121	1.50	132	1.40	142	1.32	151	1.25	159	1.18	166	1.12
	40	64	1.98	84	1.81	100	1.65	114	1.52	125	1.40	136	1.32	146	1.25	154	1.17	161	1.11	168	1.06
	50	72	1.81	91	1.69	106	1.54	119	1.42	130	1.32	140	1.24	149	1.17	157	1.10	164	1.04	170	0.99
	60	81	1.73	98	1.57	112	1.43	123	1.30	134	1.22	144	1.16	153	1.10	160	1.03	166	0.97	172	0.92
	70	89	1.57	104	1.40	117	1.29	128	1.19	139	1.14	148	1.07	156	1.01	163	0.96	169	0.91	175	0.87
1000	−40	−3	3.81	26	3.40	51	3.13	72	2.88	89	2.66	104	2.47	116	2.30	127	2.15	138	2.04	146	1.92
	−30	5	3.60	33	3.24	57	2.99	76	2.73	93	2.53	107	2.35	119	2.19	130	2.06	140	1.95	148	1.83
	−20	12	3.30	39	3.04	62	2.82	81	2.60	97	2.41	110	2.23	122	2.09	133	1.97	142	1.85	151	1.76
	−10	21	3.19	46	2.88	68	2.68	86	2.47	101	2.29	114	2.13	125	1.99	136	1.88	145	1.77	153	1.68
	0	29	2.99	53	2.73	74	2.54	91	2.34	105	2.16	118	2.02	128	1.89	139	1.79	147	1.68	156	1.61
	10	37	2.78	60	2.57	80	2.40	96	2.21	110	2.06	121	1.90	132	1.80	141	1.69	150	1.60	158	1.52
	20	46	2.68	67	2.42	86	2.27	101	2.09	114	1.94	125	1.80	136	1.71	144	1.60	153	1.52	160	1.44
	30	54	2.47	74	2.26	92	2.13	106	1.96	118	1.81	129	1.70	139	1.60	148	1.52	156	1.44	162	1.36
	40	63	2.37	82	2.16	98	1.99	111	1.83	122	1.69	133	1.60	142	1.50	151	1.43	159	1.36	165	1.29
	50	71	2.16	88	1.95	103	1.82	116	1.70	127	1.59	137	1.49	146	1.41	154	1.34	[illegible]	1.27	167	1.20
	60	80	2.06	96	1.85	110	1.72	121	1.57	132	1.48	141	1.39	150	1.33	158	1.26	[illegible]	1.19	170	1.13
	70	88	1.85	102	1.65	115	1.51	126	1.44	137	1.38	146	1.30	154	1.24	161	1.17	[illegible]	1.11	172	1.05

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
10 Pounds Gauge

Steam Temperature
240° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	—40	— 6	4.20	21	3.78	44	3.46	63	3.18	81	2.99	95	2.78	108	2.62	120	2.48	130	2.34	139	2.21
	—30	1	3.83	28	3.59	50	3.30	69	3.06	85	2.84	99	2.66	112	2.51	122	2.35	132	2.23	141	2.11
	—20	10	3.71	35	3.41	56	3.13	74	2.90	90	2.72	103	2.53	115	2.39	125	2.24	135	2.13	144	2.03
	—10	18	3.46	42	3.22	62	2.97	79	2.75	94	2.57	107	2.41	119	2.28	129	2.15	138	2.04	147	1.94
	0	26	3.21	49	3.03	68	2.80	84	2.60	98	2.42	111	2.29	122	2.16	132	2.04	141	1.94	149	1.84
	10	35	3.09	56	2.85	74	2.64	90	2.47	103	2.30	115	2.16	125	2.04	135	1.93	144	1.84	152	1.76
	20	44	2.97	63	2.66	80	2.47	95	2.32	108	2.17	119	2.04	129	1.93	138	1.83	147	1.75	155	1.67
	30	52	2.72	70	2.48	86	2.31	100	2.16	113	2.05	123	1.92	133	1.82	142	1.73	150	1.65	157	1.57
	40	60	2.47	78	2.35	93	2.18	106	2.04	118	1.93	128	1.81	137	1.72	146	1.64	153	1.55	160	1.48
	50	69	2.35	86	2.23	99	2.02	112	1.92	122	1.78	132	1.69	142	1.63	150	1.55	157	1.47	163	1.40
	60	78	2.22	93	2.04	106	1.90	118	1.79	128	1.68	137	1.59	146	1.52	153	1.44	160	1.37	166	1.31
	70	86	1.98	100	1.86	112	1.73	123	1.64	133	1.56	142	1.48	150	1.41	157	1.35	163	1.28	169	1.22
1500	—40	—11	4.48	15	4.25	36	3.91	55	3.67	72	3.46	86	3.24	99	3.07	111	2.92	121	2.77	130	2.63
	—30	— 2	4.32	22	4.02	42	3.71	60	3.48	77	3.31	91	3.12	103	2.94	114	2.78	124	2.65	134	2.53
	—20	6	4.02	29	3.79	48	3.50	66	3.32	82	3.15	95	2.96	107	2.81	118	2.66	127	2.52	136	2.41
	—10	15	3.86	36	3.55	55	3.35	72	3.17	87	3.00	100	2.83	111	2.67	121	2.53	131	2.42	140	2.32
	0	24	3.71	44	3.40	62	3.19	78	3.01	92	2.84	104	2.68	115	2.54	124	2.39	134	2.30	142	2.19
	10	32	3.40	51	3.17	68	2.99	84	2.86	97	2.69	108	2.53	119	2.41	128	2.28	138	2.20	145	2.09
	20	40	3.09	58	2.93	75	2.83	89	2.67	102	2.53	113	2.40	123	2.27	132	2.16	141	2.08	148	1.98
	30	49	2.93	67	2.86	82	2.68	96	2.55	107	2.38	118	2.27	128	2.16	137	2.07	144	1.96	151	1.87
	40	58	2.78	75	2.70	89	2.52	102	2.40	113	2.25	123	2.14	132	2.03	141	1.95	148	1.85	154	1.76
	50	67	2.63	82	2.47	96	2.37	108	2.24	118	2.10	128	2.01	137	1.92	145	1.84	151	1.73	158	1.67
	60	76	2.47	90	2.32	102	2.16	114	2.08	124	1.98	133	1.88	141	1.79	148	1.70	155	1.63	161	1.56
	70	85	2.32	98	2.16	110	2.06	120	1.93	130	1.85	138	1.75	146	1.68	152	1.58	158	1.51	164	1.45
1800	—40	—13	5.01	10	4.63	30	4.32	49	4.13	66	3.93	80	3.71	93	3.52	104	3.34	115	3.19	124	3.04
	—30	— 4	4.82	18	4.45	37	4.14	55	3.94	71	3.75	85	3.56	98	3.39	108	3.20	118	3.05	128	2.93
	—20	4	4.45	25	4.17	44	3.95	61	3.76	77	3.60	90	3.40	101	3.21	112	3.06	122	2.92	131	2.80
	—10	13	4.27	33	3.99	51	3.77	68	3.62	83	3.45	95	3.25	106	3.07	116	2.92	125	2.78	134	2.67
	0	22	4.08	41	3.80	58	3.58	74	3.43	88	3.26	100	3.09	110	2.91	120	2.79	129	2.66	137	2.54
	10	30	3.71	49	3.62	66	3.46	80	3.24	93	3.08	104	2.90	115	2.78	124	2.65	133	2.53	140	2.41
	20	39	3.52	57	3.43	73	3.28	87	3.11	99	2.93	110	2.78	120	2.65	128	2.51	136	2.39	143	2.28
	30	48	3.34	65	3.24	80	3.09	93	2.92	104	2.75	115	2.63	124	2.49	133	2.39	140	2.26	147	2.17
	40	57	3.20	74	3.15	87	2.90	99	2.74	110	2.60	120	2.47	129	2.36	137	2.25	144	2.14	150	2.04
	50	66	2.97	81	2.88	94	2.72	105	2.55	116	2.45	125	2.32	133	2.20	141	2.11	147	2.00	153	1.91
	60	75	2.78	89	2.69	101	2.54	112	2.41	121	2.26	130	2.16	138	2.07	144	1.95	151	1.87	157	1.80
	70	84	2.60	96	2.41	107	2.29	118	2.23	126	2.08	135	2.01	142	1.91	148	1.81	154	1.73	160	1.67

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
20 Pounds Gauge

Steam Temperature
259° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
600	—40	14	3.38	48	2.76	75	2.41	98	2.16	117	1.97	133	1.81	145	1.66	156	1.53	165	1.43	173	1.34
	—30	20	3.13	53	2.60	79	2.28	101	2.05	120	1.88	135	1.72	147	1.58	158	1.47	166	1.37	175	1.28
	—20	26	2.88	57	2.41	82	2.13	104	1.94	122	1.78	137	1.64	149	1.51	159	1.40	168	1.31	176	1.23
	—10	32	2.63	62	2.26	87	2.03	108	1.85	125	1.69	139	1.56	151	1.44	160	1.33	169	1.25	178	1.18
	0	39	2.44	67	2.10	91	1.90	111	1.74	128	1.60	141	1.47	153	1.37	162	1.27	171	1.19	179	1.12
	10	45	2.19	73	1.97	96	1.80	116	1.66	131	1.52	144	1.40	155	1.30	164	1.20	173	1.13	181	1.07
	20	53	2.07	79	1.85	101	1.69	120	1.57	135	1.44	147	1.33	158	1.24	166	1.14	175	1.08	182	1.02
	30	60	1.88	85	1.72	107	1.61	124	1.47	138	1.35	150	1.25	160	1.16	169	1.09	177	1.02	184	0.97
	40	68	1.75	92	1.63	112	1.50	129	1.40	142	1.28	153	1.18	163	1.10	171	1.02	180	0.98	186	0.92
	50	76	1.63	99	1.53	118	1.42	133	1.30	146	1.20	156	1.11	166	1.04	174	0.97	182	0.92	188	0.87
	60	85	1.57	107	1.47	124	1.34	138	1.22	150	1.13	160	1.04	169	0.98	177	0.92	184	0.87	190	0.82
	70	94	1.50	114	1.38	130	1.25	143	1.15	154	1.05	163	0.97	172	0.91	180	0.86	187	0.82	192	0.77
800	—40	8	4.01	41	3.38	67	2.98	90	2.72	109	2.49	124	2.29	138	2.13	149	1.97	158	1.84	167	1.73
	—30	15	3.76	46	3.18	72	2.84	93	2.57	112	2.37	127	2.19	140	2.03	151	1.89	160	1.76	169	1.66
	—20	21	3.43	51	2.96	76	2.67	97	2.44	115	2.26	129	2.08	142	1.94	152	1.80	161	1.68	170	1.59
	—10	28	3.17	56	2.76	80	2.51	101	2.32	118	2.14	132	1.98	144	1.84	154	1.71	163	1.61	172	1.52
	0	35	2.92	62	2.59	86	2.40	105	2.19	122	2.04	135	1.88	146	1.74	156	1.63	165	1.53	174	1.45
	10	42	2.67	68	2.42	91	2.26	110	2.09	125	1.92	138	1.78	149	1.66	159	1.56	168	1.47	176	1.39
	20	50	2.51	74	2.26	96	2.12	114	2.01	128	1.80	141	1.69	152	1.58	161	1.47	170	1.39	178	1.32
	30	58	2.34	82	2.17	102	2.01	119	1.86	133	1.72	145	1.60	155	1.49	164	1.40	172	1.32	180	1.25
	40	66	2.17	89	2.05	108	1.89	124	1.76	137	1.62	148	1.50	158	1.41	167	1.33	175	1.25	182	1.19
	50	75	2.09	96	1.92	114	1.78	128	1.63	141	1.52	152	1.42	161	1.33	170	1.25	178	1.19	184	1.12
	60	84	2.01	104	1.84	120	1.67	134	1.55	146	1.44	156	1.34	164	1.24	173	1.18	180	1.11	187	1.06
	70	92	1.84	111	1.71	126	1.56	139	1.44	150	1.34	159	1.24	168	1.17	176	1.11	183	1.05	189	0.99
1000	—40	3	4.50	34	3.87	60	3.48	82	3.19	100	2.93	117	2.73	130	2.54	142	2.38	152	2.23	161	2.10
	—30	10	4.18	40	3.66	65	3.31	86	3.03	104	2.80	120	2.61	133	2.48	144	2.27	154	2.13	163	2.02
	—20	17	3.87	46	3.45	70	3.13	90	2.87	108	2.68	122	2.47	135	2.31	146	2.17	156	2.04	165	1.93
	—10	24	3.56	51	3.19	75	2.96	94	2.72	112	2.55	126	2.37	138	2.21	148	2.06	158	1.95	166	1.84
	0	32	3.35	58	3.03	80	2.79	99	2.58	116	2.42	129	2.25	141	2.10	151	1.97	160	1.86	169	1.77
	10	40	3.14	65	2.87	86	2.65	104	2.45	120	2.30	133	2.14	144	2.00	154	1.88	163	1.77	171	1.68
	20	48	2.93	72	2.72	92	2.51	110	2.35	124	2.17	137	2.04	147	1.90	157	1.79	166	1.69	173	1.60
	30	56	2.72	79	2.56	98	2.37	114	2.19	128	2.05	140	1.91	150	1.79	160	1.70	168	1.60	176	1.53
	40	65	2.62	86	2.40	104	2.23	120	2.09	133	1.94	144	1.81	154	1.70	163	1.61	171	1.52	178	1.44
	50	74	2.51	93	2.25	111	2.12	125	1.96	137	1.82	148	1.71	158	1.61	166	1.51	174	1.44	181	1.37
	60	82	2.30	100	2.09	117	1.98	130	1.83	142	1.71	152	1.60	161	1.51	169	1.42	177	1.36	184	1.30
	70	91	2.20	108	1.99	123	1.85	136	1.72	146	1.59	156	1.50	165	1.42	173	1.34	180	1.28	186	1.21

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
20 Pounds Gauge

Steam Temperature
259° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†
1200	-40	-2	4.77	28	4.27	53	3.89	73	3.55	92	3.32	108	3.10	122	2.91	134	2.73	144	2.56	154	2.44
	-30	5	4.39	33	3.96	58	3.68	78	3.39	96	3.16	112	2.97	124	2.76	136	2.61	146	2.45	156	2.34
	-20	13	4.14	40	3.77	63	3.47	83	3.23	100	3.01	115	2.82	128	2.66	139	2.50	149	2.36	158	2.24
	-10	21	3.89	47	3.58	69	3.31	88	3.07	105	2.89	119	2.70	131	2.53	142	2.39	151	2.25	160	2.13
	0	29	3.64	54	3.39	75	3.14	93	2.92	109	2.74	123	2.57	134	2.40	145	2.28	154	2.15	162	2.03
	10	38	3.52	61	3.20	81	2.97	99	2.79	114	2.61	127	2.45	138	2.29	148	2.17	157	2.05	165	1.95
	20	46	3.26	68	3.01	87	2.80	104	2.64	118	2.46	131	2.32	141	2.17	151	2.06	160	1.95	168	1.86
	30	55	3.14	76	2.89	94	2.68	110	2.51	123	2.34	135	2.20	145	2.06	154	1.95	163	1.85	170	1.76
	40	63	2.89	83	2.70	100	2.51	115	2.35	128	2.21	139	2.07	149	1.95	158	1.85	166	1.76	173	1.67
	50	72	2.76	90	2.51	107	2.38	120	2.20	132	2.06	143	1.94	153	1.85	161	1.74	169	1.66	176	1.58
	60	80	2.51	98	2.38	113	2.22	126	2.07	137	1.93	148	1.84	156	1.72	164	1.63	172	1.56	178	1.48
	70	89	2.39	106	2.26	120	2.09	132	1.94	142	1.81	152	1.71	160	1.62	168	1.54	175	1.47	181	1.39
1500	-40	-8	5.02	20	4.71	43	4.34	63	4.01	81	3.80	97	3.58	110	3.37	122	3.18	133	3.02	143	2.88
	-30	1	4.87	27	4.47	49	4.13	69	3.88	86	3.64	101	3.43	112	3.18	125	3.04	136	2.90	146	2.76
	-20	9	4.56	34	4.24	55	3.93	74	3.69	91	3.48	105	3.27	118	3.10	129	2.92	139	2.77	149	2.66
	-10	18	4.40	41	4.00	62	3.77	80	3.53	96	3.33	110	3.14	121	2.94	133	2.81	148	2.67	152	2.54
	0	26	4.08	49	3.85	68	3.56	86	3.37	101	3.17	114	2.98	125	2.81	136	2.67	146	2.55	154	2.42
	10	34	3.77	56	3.61	75	3.40	91	3.18	105	2.98	118	2.83	129	2.67	140	2.55	149	2.42	157	2.31
	20	43	3.61	63	3.37	81	3.19	97	3.02	110	2.83	122	2.67	133	2.54	143	2.42	152	2.30	160	2.20
	30	52	3.46	72	3.30	89	3.09	103	2.86	116	2.70	127	2.54	138	2.42	147	2.30	156	2.20	164	2.11
	40	61	3.30	79	3.06	95	2.88	109	2.71	121	2.54	132	2.41	142	2.29	151	2.18	160	2.08	167	2.00
	50	70	3.14	87	2.90	102	2.72	115	2.55	126	2.38	137	2.28	147	2.18	155	2.06	163	1.97	170	1.89
	60	79	2.98	94	2.67	108	2.51	120	2.35	131	2.23	142	2.14	151	2.04	159	1.94	166	1.85	173	1.78
	70	87	2.67	102	2.51	115	2.35	126	2.20	137	2.10	147	2.01	155	1.91	163	1.82	170	1.74	176	1.66
1800	-40	-11	5.45	15	5.17	37	4.82	58	4.60	76	4.36	91	4.10	104	3.87	116	3.67	126	3.47	136	3.31
	-30	-2	5.27	23	4.98	44	4.63	64	4.42	[illegible]	4.17	96	3.94	108	3.71	120	3.53	130	3.34	140	3.20
	-20	7	5.07	30	4.70	51	4.44	70	4.23	[illegible]	3.98	100	3.76	112	3.55	123	3.36	133	3.20	143	3.06
	-10	15	4.70	37	4.42	58	4.26	76	4.04	91	3.80	104	3.57	116	3.39	126	3.20	136	3.05	146	2.93
	0	24	4.52	46	4.32	65	4.07	82	3.85	96	3.61	109	3.41	120	3.23	130	3.06	140	2.92	149	2.80
	10	33	4.32	54	4.13	72	3.88	88	3.66	101	3.42	114	3.26	124	3.06	134	2.92	144	2.80	153	2.69
	20	42	4.13	61	3.85	79	3.70	94	3.48	106	3.23	118	3.07	128	2.90	138	2.77	148	2.68	156	2.56
	30	51	3.95	70	3.76	86	3.51	100	3.29	112	3.08	123	2.91	133	2.77	143	2.66	152	2.55	160	2.44
	40	60	3.76	78	3.57	93	3.32	106	3.10	117	2.89	128	2.75	138	2.63	147	2.52	155	2.40	163	2.33
	50	69	3.57	85	3.29	99	3.07	111	2.87	122	2.70	132	2.57	142	2.47	151	2.37	159	2.28	166	2.18
	60	78	3.38	93	3.10	106	2.88	117	2.68	128	2.55	138	2.44	147	2.34	155	2.23	163	2.15	170	2.07
	70	86	3.01	100	2.82	112	2.63	122	2.44	133	2.37	143	2.28	152	2.20	159	2.09	167	2.03	173	1.94

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
40 Pounds Gauge

Steam Temperature
287° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
600	—40	23	4.04	61	3.24	92	2.82	118	2.53	138	2.28	155	2.08	169	1.92	181	1.77	191	1.65	200	1.54
	—30	28	3.72	65	3.05	95	2.67	121	2.42	141	2.19	157	2.00	170	1.83	182	1.70	192	1.58	201	1.48
	—20	33	3.40	69	2.86	99	2.54	123	2.29	143	2.09	159	1.91	172	1.76	183	1.63	193	1.52	202	1.42
	—10	39	3.14	74	2.69	102	2.40	127	2.20	146	2.00	161	1.83	174	1.69	185	1.56	194	1.45	203	1.36
	0	45	2.89	78	2.50	107	2.29	130	2.08	148	1.90	163	1.74	176	1.61	186	1.49	196	1.40	204	1.31
	10	52	2.69	84	2.37	112	2.18	133	1.97	151	1.81	165	1.66	178	1.54	188	1.43	198	1.34	205	1.25
	20	59	2.50	90	2.25	116	2.05	137	1.88	154	1.72	168	1.58	180	1.47	190	1.36	199	1.28	207	1.20
	30	67	2.37	97	2.15	122	1.97	141	1.78	158	1.64	171	1.51	182	1.39	192	1.30	201	1.22	209	1.15
	40	74	2.18	103	2.02	127	1.86	146	1.70	161	1.55	174	1.43	185	1.33	194	1.23	203	1.16	210	1.09
	50	82	2.05	110	1.93	132	1.75	150	1.60	165	1.48	177	1.36	188	1.26	197	1.18	205	1.10	212	1.04
	60	91	1.99	117	1.83	138	1.67	155	1.52	168	1.39	180	1.28	190	1.19	200	1.12	207	1.05	214	0.99
	70	99	1.86	124	1.73	143	1.56	159	1.42	172	1.31	184	1.22	193	1.13	202	1.06	209	0.99	216	0.94
800	—40	16	4.79	52	3.93	81	3.45	106	3.12	128	2.88	145	2.64	160	2.45	172	2.27	183	2.12	192	1.99
	—30	22	4.45	57	3.72	86	3.31	110	2.99	130	2.74	148.	2.54	161	2.33	174	2.18	184	2.03	194	1.92
	—20	28	4.11	62	3.50	90	3.14	113	2.84	133	2.62	150	2.42	163	2.24	175	2.09	186	1.96	195	1.84
	—10	35	3.85	67	3.29	94	2.96	117	2.72	136	2.50	152	2.31	165	2.14	177	2.00	187	1.87	196	1.76
	0	41	3.51	72	3.08	98	2.79	120	2.57	140	2.40	155	2.21	168	2.05	179	1.91	189	1.79	198	1.69
	10	48	3.25	78	2.91	103	2.65	124	2.44	143	2.28	158	2.11	170	1.96	181	1.83	191	1.72	200	1.63
	20	56	3.08	84	2.73	109	2.54	130	2.35	146	2.16	160	2.00	173	1.87	184	1.76	193	1.64	201	1.55
	30	63	2.82	91	2.61	114	2.39	134	2.22	150	2.05	164	1.91	176	1.79	186	1.67	196	1.58	203	1.48
	40	71	2.65	97	2.44	120	2.28	139	2.12	154	1.95	167	1.81	178	1.69	188	1.58	198	1.50	205	1.41
	50	80	2.57	104	2.31	126	2.17	144	2.01	159	1.86	171	1.72	182	1.61	192	1.52	200	1.42	208	1.35
	60	88	2.39	112	2.22	132	2.05	149	1.90	162	1.75	174	1.63	185	1.53	195	1.44	202	1.35	210	1.28
	70	97	2.31	119	2.09	138	1.94	154	1.80	167	1.66	178	1.54	188	1.44	197	1.36	205	1.28	212	1.22
1000	—40	10	5.34	45	4.54	74	4.06	98	3.69	119	3.40	137	3.15	152	2.93	164	2.72	176	2.56	186	2.42
	—30	17	5.02	50	4.28	78	3.84	102	3.53	122	3.25	140	3.03	154	2.81	166	2.62	177	2.45	188	2.33
	—20	23	4.59	55	4.01	82	3.63	105	3.34	125	3.10	142	2.89	156	2.68	168	2.51	179	2.36	189	2.23
	—10	30	4.27	61	3.79	87	3.45	110	3.21	129	2.97	145	2.76	159	2.58	170	2.40	181	2.27	191	2.15
	0	37	3.95	67	3.58	92	3.27	114	3.05	133	2.84	148	2.64	161	2.45	173	2.31	183	2.17	193	2.06
	10	45	3.74	74	3.42	98	3.13	119	2.91	137	2.71	152	2.53	164	2.35	176	2.21	186	2.09	195	1.97
	20	53	3.53	80	3.21	104	2.99	124	2.78	141	2.58	155	2.41	167	2.24	178	2.11	188	1.99	197	1.89
	30	61	3.31	87	3.05	110	2.85	129	2.64	145	2.46	159	2.30	170	2.14	181	2.01	191	1.91	199	1.81
	40	70	3.21	95	2.94	116	2.70	134	2.51	149	2.33	162	2.17	174	2.04	184	1.92	193	1.81	201	1.72
	50	78	2.99	102	2.78	122	2.56	140	2.40	154	2.22	166	2.07	177	1.94	188	1.84	196	1.73	204	1.65
	60	86	2.78	109	2.62	128	2.42	144	2.24	158	2.09	170	1.96	181	1.84	190	1.73	199	1.65	206	1.56
	70	95	2.67	117	2.51	135	2.31	150	2.14	163	1.99	174	1.85	184	1.74	194	1.66	202	1.56	209	1.49

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
40 Pounds Gauge

Steam Temperature
287° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep																			
		1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
1200	—40	4	5.65	37	4.95	65	4.50	88	4.12	109	3.83	127	3.58	142	3.34	155	3.13	167	2.95	178	2.80
	—30	11	5.27	43	4.69	70	4.29	93	3.95	113	3.68	130	3.43	144	3.19	157	3.00	169	2.84	179	2.69
	—20	18	4.88	49	4.43	75	4.07	97	3.76	117	3.53	133	3.28	147	3.07	160	2.89	171	2.72	181	2.58
	—10	26	4.62	56	4.24	80	3.86	102	3.60	121	3.37	137	3.14	150	2.94	162	2.76	174	2.62	183	2.48
	0	34	4.37	62	3.98	86	3.69	107	3.44	125	3.22	140	3.00	154	2.83	165	2.65	176	2.51	185	2.38
	10	42	4.11	69	3.79	92	3.51	112	3.28	129	3.06	144	2.87	157	2.70	169	2.55	179	2.41	188	2.29
	20	50	3.86	76	3.60	98	3.34	118	3.15	134	2.93	148	2.74	160	2.57	172	2.44	181	2.29	190	2.18
	30	59	3.73	83	3.41	105	3.21	123	2.99	139	2.80	152	2.61	164	2.46	175	2.33	184	2.19	193	2.09
	40	66	3.34	91	3.28	111	3.04	128	2.83	143	2.65	156	2.48	168	2.35	178	2.22	187	2.10	196	2.00
	50	75	3.21	98	3.08	118	2.91	134	2.70	148	2.52	160	2.35	172	2.24	181	2.10	190	2.00	198	1.90
	60	84	3.08	105	2.89	124	2.74	139	2.54	152	2.36	164	2.23	175	2.11	184	1.99	193	1.90	200	1.80
	70	93	2.95	113	2.76	130	2.57	144	2.38	157	2.23	169	2.12	179	2.00	188	1.89	196	1.80	203	1.71
1500	—40	— 2	6.10	20	5.54	56	5.13	78	4.74	98	4.43	114	4.12	129	3.88	142	3.66	154	3.46	165	3.29
	—30	6	5.78	36	5.30	61	4.87	83	4.54	102	4.24	118	3.96	132	3.72	144	3.50	156	3.82	167	3.16
	—20	14	5.45	43	5.05	67	4.66	88	4.33	106	4.05	121	3.77	135	3.55	148	3.37	159	3.19	170	3.05
	—10	22	5.13	50	4.81	73	4.44	93	4.14	111	3.89	125	3.61	139	3.42	151	3.23	162	3.07	172	2.92
	0	30	4.82	57	4.57	79	4.23	98	3.94	115	3.69	129	3.45	142	3.26	154	3.09	166	2.96	174	2.79
	10	39	4.66	64	4.33	85	4.02	103	3.73	120	3.53	134	3.32	146	3.12	158	2.97	168	2.82	177	2.68
	20	48	4.50	71	4.09	91	3.80	109	3.57	124	3.34	138	3.16	150	2.98	161	2.83	171	2.69	180	2.57
	30	56	4.17	79	3.93	98	3.64	115	3.41	129	3.18	142	3.00	154	2.84	165	2.71	174	2.57	182	2.44
	40	64	3.85	86	3.69	104	3.42	120	3.21	134	3.02	146	2.84	158	2.71	169	2.59	177	2.44	185	2.83
	50	73	3.69	93	3.45	110	3.21	125	3.01	139	2.86	151	2.70	162	2.57	172	2.45	180	2.30	188	2.21
	60	82	3.53	100	3.21	117	3.05	131	2.85	144	2.70	156	2.57	167	2.45	176	2.33	184	2.21	191	2.10
	70	91	3.37	108	3.05	123	2.84	137	2.69	149	2.54	161	2.43	171	2.32	179	2.19	187	2.09	194	1.99
1800	—40	— 6	6.55	23	6.07	47	5.58	69	5.25	88	4.92	106	4.69	120	4.40	134	4.19	146	3.98	157	3.79
	—30	3	6.35	31	5.87	54	5.39	75	5.05	94	4.77	110	4.50	124	4.23	138	4.04	149	3.83	160	3.66
	—20	11	5.97	38	5.59	60	5.13	80	4.81	99	4.58	114	4.30	128	4.07	141	3.88	153	3.70	163	3.52
	—10	20	5.78	45	5.30	66	4.87	86	4.62	104	4.38	119	4.14	132	3.91	144	3.71	156	3.55	166	3.39
	0	28	5.39	52	5.01	73	4.68	92	4.42	109	4.20	123	3.95	136	3.74	148	3.56	159	3.40	169	3.25
	10	36	5.00	59	4.72	80	4.49	98	4.23	114	4.00	127	3.76	140	3.58	152	3.42	162	3.25	172	3.12
	20	45	4.82	66	4.43	86	4.23	104	4.04	119	3.81	132	3.60	144	3.41	156	3.27	166	3.12	175	2.98
	30	53	4.43	74	4.24	93	4.04	110	3.85	124	3.62	137	3.44	149	3.27	160	3.13	170	3.00	178	2.85
	40	62	4.23	82	4.04	100	3.85	116	3.65	129	3.42	142	3.28	154	3.14	164	2.98	173	2.85	182	2.73
	50	71	4.04	91	3.95	108	3.72	122	3.46	135	3.27	147	3.11	159	3.00	168	2.84	177	2.72	185	2.60
	60	80	3.85	99	3.76	114	3.47	128	3.27	141	3.12	153	2.98	163	2.83	172	2.70	181	2.59	188	2.46
	70	89	3.66	106	3.47	121	3.27	134	3.08	146	2.92	158	2.83	168	2.69	177	2.58	184	2.44	192	2.35

* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
80 Pounds Gauge

Steam Temperature
324° F.

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	Number of 4-Row Sections Deep 1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.†
600	—40	37	5.06	80	3.94	114	3.37	141	2.97	164	2.68	183	2.44	199	2.24	212	2.07	223	1.92	232	1 7
	—30	41	4.66	83	3.74	116	3.20	143	2 83	165	2 56	184	2.34	200	2.16	213	1.09	224	1 85	233	1.7
	—20	45	4.27	87	3.51	119	3.06	145	2.71	167	2.45	186	2.25	201	2.07	214	1.92	225	1 79	234	1.6
	—10	52	4.07	91	3.32	123	2.91	148	2 60	170	2.36	188	2.17	203	2.00	215	1.85	226	1.72	235	1.6
	0	56	3.68	95	3.12	125	2.74	151	2.48	172	2.27	189	2.07	204	1.91	217	1.78	227	1.65	236	1.5
	10	62	3.41	100	2.95	130	2.63	154	2.36	175	2.17	192	1.99	207	1.85	218	1.71	228	1.59	238	1 5
	20	69	3.22	105	2.79	134	2.50	158	2.27	177	2.06	194	1.90	209	1.77	220	1.64	229	1.52	239	1.4
	30	75	2.95	110	2.63	138	2 36	161	2.15	181	1.98	197	1.83	211	1.70	221	1.57	231	1.47	240	1.3
	40	82	2.76	116	2.50	142	2.23	165	2.05	183	1.88	199	1.74	213	1.62	223	1.50	232	1.40	241	1.3
	50	90	2.63	122	2.36	148	2.15	169	1.95	187	1.80	203	1.67	215	1.55	225	1.44	234	1.34	242	1.2
	60	98	2.50	128	2.23	153	2 04	174	1.87	191	1.72	206	1.60	218	1.48	227	1.37	236	1.28	243	1.2
	70	105	2.30	134	2.10	158	1.93	177	1.76	195	1.64	209	1.52	220	1.40	230	1.31	238	1 22	245	1.1
800	—40	27	5.88	70	4.82	105	4.24	132	3 77	155	3.42	174	3.13	189	2.87	202	2.65	213	2.47	223	2.3
	—30	33	5.52	74	4.56	108	4.03	135	3 62	157	3.28	176	3.01	190	2.76	203	2.56	215	2.39	224	2.2
	—20	38	5.08	78	4.30	112	3.86	138	3.47	159	3.14	177	2 88	192	2.66	205	2.47	216	2.30	225	2.1
	—10	44	4 74	84	4 12	116	3 68	141	3 31	162	3.02	180	2 78	194	2.56	206	2.37	217	2 21	226	2.0
	0	51	4.47	89	3.90	120	3.51	145	3.18	165	2.89	182	2.66	196	2.45	208	2.28	219	2.13	228	2.0
	10	57	4.12	94	3.68	124	3.33	148	3.03	168	2.77	184	2.54	198	2.35	210	2 19	220	2.05	229	1.9
	20	64	3.86	100	3.51	128	3.16	152	2.89	171	2 65	187	2.44	200	2.25	212	2.10	222	1.97	230	1.8
	30	72	3.68	106	3 33	134	3.04	156	2 76	174	2.52	190	2 34	202	2.16	214	2.02	224	1.89	232	1.7
	40	80	3 51	113	3.20	139	2.89	160	2.63	178	2.42	192	2 22	205	2.07	216	1.93	226	1.81	234	1.7
	50	88	3.33	119	3.02	144	2.74	164	2.50	182	2.32	196	2.13	208	1.98	218	1.84	228	1.73	236	1.6
	60	96	3.16	126	2.89	150	2.63	169	2.39	185	2.19	199	2.03	210	1.88	221	1.76	230	1.66	238	1 5
	70	106	3 07	132	2 72	155	2.48	174	2 28	189	2.05	202	1.93	313	1.79	223	1.68	234	1.60	240	1.4
1000	—40	20	6.57	61	5.55	95	4.93	122	4 44	145	4.05	164	3.72	179	3 43	193	3.19	205	3.04	216	2.8
	—30	26	6.14	66	5.26	99	4.71	125	4.25	148	3.90	166	3.58	181	3 30	195	3.08	206	2.87	217	2.7
	—20	33	5.80	71	4.98	103	4.49	129	4.08	150	3.72	168	3.43	183	3.18	197	2.97	208	2.77	218	2.6
	—10	39	5 37	77	4.76	107	4.27	133	3 92	153	3 57	170	3.28	186	3.04	198	2 85	210	2.68	220	2.5
	0	46	5 04	82	4.49	112	4.09	136	3 72	156	3.42	174	3.17	188	2.94	200	2.74	212	2.58	221	2.4
	10	54	4.82	88	4.27	117	3.91	141	3.59	160	3.28	176	3 03	190	2.82	203	2.64	213	2.47	223	2.3
	20	61	4 49	95	4 10	122	3 72	145	3 42	164	3.15	179	2 90	193	2.71	205	2.53	216	2.39	224	2.2
	30	70	4.38	102	3.94	128	3.58	149	3 26	167	3.00	182	2.77	196	2.60	208	2.44	218	2.29	226	2.1
	40	78	4.16	108	3.72	133	3.40	154	3.12	171	2.87	186	2.66	199	2.49	210	2.33	220	2.19	228	2.0
	50	86	3.94	115	3.56	139	3.25	158	2.96	175	2 74	189	2.54	202	2.38	213	2.23	222	2.09	230	1 97
	60	94	3.72	121	3.34	144	3.07	163	2.82	178	2.58	193	2.43	204	2 25	215	2.12	224	2.00	232	1.88
	70	102	3.50	128	3.17	150	2 92	168	2 68	183	2.47	196	2.30	208	2.16	218	2.03	226	1.91	234	1.80

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* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure
80 Pounds Gauge

Steam Temperature
324° F.

Number of 4-Row Sections Deep

Velocity through Heater in Feet per minute at 65 Degrees F.	Temperature of Entering Air Degrees F.	1		2		3		4		5		6		7		8		9		10	
		F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F. T.*	C.†	F.T.*	C.†	F.T.*	C.†	F.T.*	C.
1200	—40	12	6.84	52	6.02	85	5.47	113	5.01	135	4.60	155	4.27	171	3.96	185	3.70	197	3.46	207	3.2
	—30	20	6.58	59	5.85	91	5.30	117	4.83	139	4.44	158	4.12	174	3.83	187	3.57	199	3.34	209	3.1
	—20	27	6.18	64	5.52	95	5.04	121	4.63	142	4.26	161	3.96	176	3.68	189	3.44	200	3.21	210	3.0
	—10	35	5.91	71	5.32	101	4.86	125	4.43	146	4.10	164	3.81	179	3.55	191	3.30	202	3.09	212	2.9
	0	42	5.52	77	5.06	106	4.65	129	4.23	149	3.92	167	3.66	181	3.40	194	3.19	204	2.98	214	2.8
	10	50	5.26	84	4.86	112	1.47	134	4.07	154	3.78	171	3.52	184	3.27	196	3.06	207	2.88	216	2.7
	20	59	5.12	91	4.66	117	4.25	139	3.91	158	3.63	174	3.37	187	3.14	199	2.94	209	2.76	218	2.6
	30	67	4.86	98	4.47	123	4.07	144	3.74	162	3.47	177	3.22	190	3.01	201	2.81	211	2.64	220	2.5
	40	75	4.60	105	4.27	128	3.86	149	3.58	167	3.34	181	3.09	193	2.88	204	2.70	214	2.54	222	2.3
	50	84	4.47	112	4.07	134	3.68	154	3.41	171	3.18	184	2.93	196	2.74	207	2.58	216	2.42	225	2.3
	60	92	4.21	118	3.80	139	3.46	158	3.22	174	3.00	187	2.78	199	2.61	209	2.45	218	2.31	227	2.1
	70	100	3.94	124	3.55	145	3.28	164	3.09	178	2.84	191	2.65	202	2.48	212	2.33	220	2.19	229	2.0
1500	—40	5	7.40	41	6.66	70	6.04	96	5.59	119	5.27	138	4.88	154	4.56	168	4.28	181	4.04	192	3.8
	—30	13	7.08	48	6.42	76	5.82	101	5.39	123	5.04	141	4.69	157	4.40	171	4.14	183	3.90	194	3.
	—20	20	6.58	54	6.09	81	5.54	106	5.18	127	4.84	144	4.50	160	4.23	174	3.99	186	3.77	196	3.
	—10	28	6.26	60	5.76	87	5.32	111	4.97	131	4.64	148	4.34	163	4.07	176	3.83	188	3.62	199	3.4
	0	37	6.09	67	5.51	93	5.10	116	4.77	135	4.45	152	4.17	167	3.93	180	3.70	191	3.49	201	3.
	10	45	5.76	74	5.26	100	4.94	122	4.61	140	4.28	156	4.00	171	3.79	183	3.56	194	3.37	204	3.1
	20	54	5.60	81	5.02	106	4.72	127	4.10	144	4.08	160	3.84	174	3.62	186	3.42	196	3.22	206	3.0
	30	62	5.26	88	4.77	112	4.50	132	4.20	149	3.92	164	3.08	177	3.46	189	3.27	200	3.11	209	2.9
	40	70	4.94	96	4.61	118	4.28	137	3.99	153	3.72	168	3.51	181	3.32	192	3.13	202	2.96	211	2.8
	50	78	4.61	103	4.36	125	4.11	142	3.78	158	3.56	172	3.35	184	3.15	195	2.98	205	2.83	214	2.7
	60	87	4.44	111	4.20	131	3.89	148	3.62	163	3.39	176	3.18	188	3.01	199	2.86	208	2.71	217	2.6
	70	96	4.28	118	3.95	137	3.67	153	3.42	168	3.23	181	3.05	192	2.87	202	2.72	211	2.58	220	2.4
1800	—40	0	7.88	33	7.20	63	6.77	88	6.31	110	5.92	128	5.52	145	5.21	160	4.93	173	4.67	185	4.4
	—30	8	7.49	41	7.00	70	6.57	93	6.06	114	5.68	132	5.32	148	5.01	163	4.76	176	4.51	187	4.2
	—20	17	7.29	48	6.70	76	6.31	99	5.86	119	5.48	137	5.18	152	4.85	166	4.59	179	4.36	190	4.1
	—10	25	6.90	56	6.51	82	6.04	104	5.62	124	5.28	141	4.96	156	4.68	170	4.44	182	4.21	192	3.9
	0	33	6.50	63	6.21	88	5.78	110	5.42	128	5.02	145	4.76	160	4.51	173	4.27	185	4.05	195	3.8
	10	42	6.31	71	6.01	94	5.52	115	5.18	133	4.85	150	4.60	164	4.34	177	4.12	188	3.90	198	3.7
	20	51	6.11	78	5.72	101	5.32	121	4.98	138	4.65	144	4.40	168	4.17	180	3.95	191	3.75	200	3.5
	30	60	5.91	86	5.52	108	5.12	126	4.73	143	4.46	158	4.20	172	4.00	183	3.77	194	3.59	203	3.4
	40	69	5.72	93	5.22	114	4.86	132	4.53	148	4.26	163	4.04	176	3.83	187	3.62	197	3.44	206	3.2
	50	77	5.32	100	4.93	120	4.60	138	4.34	153	4.06	167	3.84	179	3.63	190	3.45	200	3.37	209	3.1
	60	86	5.12	108	4.73	126	4.34	143	4.09	158	3.86	172	3.68	183	3.46	194	3.30	203	3.13	212	3.0
	70	93	4.53	114	4.34	133	4.14	149	3.89	163	3.67	176	3.48	187	3.29	197	3.13	206	2.98	215	2.8

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* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface pet hour.

Sturtevant Heaters—Mitre Type

Hot Water Circulation

Final Temperatures

Water Temperature 180° F.

Number of 4-Row Sections Deep

600 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	7	39	62	81	95	107	117
—30	13	43	66	84	98	109	118
—20	20	48	70	87	100	111	120
—10	27	53	74	90	102	113	122
0	34	59	78	93	105	115	123
10	41	64	82	96	108	118	126
20	48	70	87	100	111	120	127
30	56	76	92	104	114	122	129
40	64	82	96	108	118	126	133
50	71	88	101	112	121	128	134
60	79	94	106	116	124	131	137
70	87	100	111	120	127	133	138

800 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	3	33	57	75	90	101	112
—30	10	39	61	78	92	104	114
—20	17	44	65	82	95	106	116
—10	24	50	69	85	98	108	117
0	31	55	74	88	101	111	119
10	39	61	78	92	104	114	122
20	47	67	83	96	107	116	124
30	54	73	88	100	110	119	126
40	62	79	93	104	114	122	129
50	69	85	98	108	117	125	131
60	78	91	103	113	121	128	134
70	85	98	109	118	125	131	137

1000 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	0	29	53	70	85	97	108
—30	6	34	56	74	88	99	110
—20	14	40	61	77	91	102	112
—10	21	46	65	81	94	105	114
0	29	53	70	85	97	108	117
10	37	58	75	89	101	111	119
20	45	65	80	93	104	113	121
30	53	71	85	98	108	117	124
40	60	77	90	102	112	120	127
50	69	83	96	107	116	123	130
60	77	90	102	112	120	127	133
70	85	97	108	117	124	130	136

1200 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	—3	25	47	65	80	93	103
—30	3	30	51	69	83	95	105
—20	11	36	56	73	86	98	108
—10	20	43	62	77	90	101	110
0	27	49	67	81	94	104	113
10	35	55	72	86	97	107	115
20	43	62	77	90	101	110	118
30	51	69	83	95	105	114	121
40	59	75	89	100	109	117	124
50	67	82	94	104	113	121	127
60	76	89	100	109	117	124	130
70	84	96	106	115	122	128	134

1500 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	—6	20	41	59	74	86	97
—30	1	25	46	63	77	89	100
—20	8	32	51	67	81	93	103
—10	17	38	57	72	85	96	106
0	25	45	62	77	89	99	108
10	33	52	68	82	93	103	111
20	41	59	74	86	97	106	114
30	50	66	80	92	102	111	118
40	58	73	86	97	106	115	122
50	66	80	92	102	111	118	125
60	75	87	98	107	115	122	128
70	83	95	105	113	120	126	132

1800 ‡

Temperature of Entering Air Degrees F.	1 F. T.*	2 F. T.*	3 F. T.*	4 F. T.*	5 F. T.*	6 F. T.*	7 F. T.*
—40	—9	16	37	55	69	82	93
—30	—1	22	42	59	73	85	96
—20	6	29	48	63	77	89	99
—10	15	36	54	69	81	93	103
0	23	43	59	74	86	96	105
10	32	50	66	79	91	101	110
20	40	58	72	84	95	104	112
30	49	65	78	90	100	109	116
40	57	71	84	95	104	112	119
50	65	79	90	100	109	116	123
60	74	86	97	106	114	121	127
70	83	94	103	111	118	124	130

* Final temperature of air leaving heater.

‡ Velocity through heater in feet per minute at 65 Degrees F.

Sizes of Steam Pipes for Sturtevant Heaters

Pounds of Steam Condensed Per Hour	Steam Pressure					
	0 Pounds		5 Pounds		80 Pounds	
	Supply	Return	Supply	Return	Supply	Return
50	1.5	1.00	1.25	1.00	1.00	0.75
100	2.0	1.25	1.5	1.00	1.00	0.75
150	2.5	1.5	2.0	1.25	1.25	1.00
200	2.5	1.5	2.0	1.25	1.25	1.00
250	3.0	2.0	2.5	1.5	1.25	1.00
300	3.0	2.0	2.5	1.5	1.25	1.00
350	3.0	2.0	2.5	1.5	1.5	1.00
400	3.5	2.0	3.0	2.0	2.0	1.25
450	3.5	2.0	3.0	2.0	2.0	1.25
500	3.5	2.0	3.0	2.0	2.0	1.25
600	4.0	2.0	3.0	2.0	2.0	1.25
700	4.0	2.0	3.5	2.0	2.0	1.25
800	4.5	2.5	3.5	2.0	2.0	1.25
900	4.5	2.5	3.5	2.0	2.5	1.5
1000	4.5	2.5	4.0	2.0	2.5	1.5
1250	5	2.5	4.0	2.0	2.5	1.5
1500	6	3.0	4.5	2.5	2.5	1.5
1750	6	3.0	4.5	2.5	3.0	2.0
2000	6	3.0	5	2.5	3.0	2.0
2250	6	3.0	5	2.5	3.0	2.0
2500	7	3.5	6	3.0	3.0	2.0
2750	7	3.5	6	3.0	3.5	2.0
3000	7	3.5	6	3.0	3.5	2.0
3250	7	3.5	6	3.0	3.5	2.0
3500	8	4.0	6	3.0	3.5	2.0
3750	8	4.0	6	3.0	3.5	2.0
4000	8	4.0	7	3.5	4.0	2.0
4250	8	4.0	7	3.5	4.0	2.0
4500	8	4.0	7	3.5	4.0	2.0
4750	8	4.0	7	3.5	4.0	2.0
5000	9	4.5	7	3.5	4.0	2.0
5250	9	4.5	7	3.5	4.0	2.0
5500	9	4.5	7	3.5	4.0	2.0
5750	9	4.5	7	3.5	4.0	2.0
6000	9	4.5	7	3.5	4.5	2.5
7000	10	5	8	4.0	4.5	2.5
8000	10	5	8	4.0	4.5	2.5
9000	10	5	9	4.5	5	2.5
10000	12	6	9	4.5	5	2.5
11000	12	6	9	4.5	6	3
1[illegible]000	12	6	10	5	6	3
13000	12	6	10	5	6	3
14000	12	6	10	5	6	3

Friction Loss through Sturtevant Heaters

Friction in inches of water. Volumes of air and friction effect taken with air at 65° F.

Outside Diameter 1" Pipe—1.281"
Outside Diameter 1¼" Pipe—1.660"

Velocity through free area of heater feet per minute	Number of Rows in Heater	1" Pipe † 2⅛" Centres	1¼" Pipe ‡ 2⅝" Centres	1" Pipe § 2⅝" Centres	1" Pipe * 2¾" Centres
600	8	.06	.06	.04	.04
	16	.09	.09	.06	.06
	24	.12	.13	.08	.08
	32	.15	.17	.11	.11
800	8	.10	.10	.07	.07
	16	.16	.16	.10	.10
	24	.22	.23	.14	.14
	32	.27	.30	.19	.19
1000	8	.16	.16	.11	.11
	16	.25	.25	.16	.16
	24	.34	.36	.23	.23
	32	.43	.47	.29	.29
1200	8	.21	.23	.16	.15
	16	.35	.38	.24	.23
	24	.49	.53	.33	.31
	32	.63	.69	.42	.39
1500	8	.33	.36	.25	.23
	16	.55	.59	.38	.36
	24	.77	.83	.52	.49
	32	.99	1.08	.66	.62
1800	8	.48	.51	.36	.34
	16	.79	.85	.56	.52
	24	1.10	1.20	.75	.70
	32	1.42	1.55	.95	.87
2100	8	.65	.70	.49	.47
	16	1.08	1.17	.76	.71
	24	1.50	1.64	1.03	.96
	32	1.94	2.11	1.30	1.20

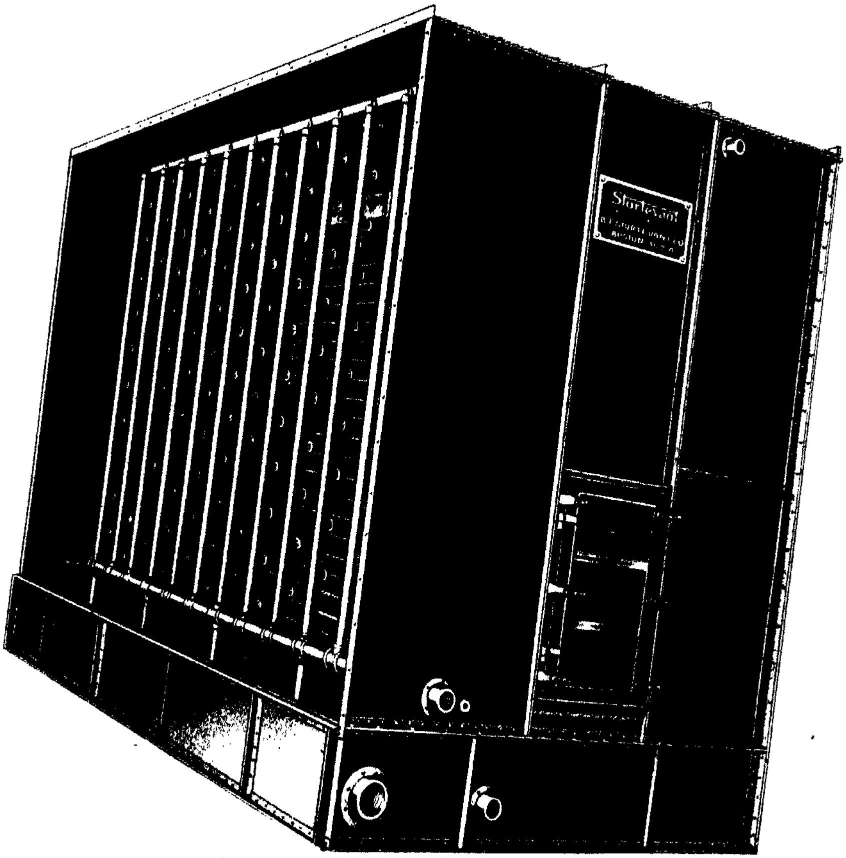
† Refers to Sturtevant or Regular, London and Mitre Types.
‡ Refers to Sturtevant Heaters of Mitre Type.
§ Refers to use of 1" pipe in base of 1¼" Mitre Heater Section.
* Refers to Sturtevant Heaters of Return Bend Type.

STURTEVANT AIR WASHERS

Types "H," "C" and "S"

Dimensions—Capacities

Sturtevant Air Washer—Type "H"



Sturtevant Type "H" Air Washer

STURTEVANT AIR WASHER—TYPE "H"

SPECIFICATIONS

General. There shall be furnished a ....by........ size, type "H" Sturtevant Air Washer. The width of the washer shall be ....feet.......inches by a height ....feet.......inches. The length of the washer in direction of flow of air shall be 7 feet 0 inches.

The air washer shall have a capacity of .... cubic feet of air per minute at a velocity of .... feet per minute.

Tank. The tank shall be constructed of galvanized steel firmly braced and riveted to a rigid frame of galvanized angle irons. The plates of the the tank shall be of No. 14 gauge, the angle irons shall be 1½″ by 1½″ by 3-16″, and shall be spaced not more than 3 feet apart. The top framing angles are to be punched 5″ on centers for 3-8″ bolts to secure the casing of the spray chamber to the tank. All rivet heads and seams shall be soldered over to make the tank watertight. The tank shall be fitted with a conical shaped overflow and trap which shall carry away the surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain to the spray chamber.

Casing. The casing of the washer shall be made of No. 18 galvanized steel thoroughly braced with 1½″ by 1½″ by 3-16″ galvanized angle irons, spaced not more than 3 feet on centers. The seams and rivet heads are to be soldered so as to make the casing watertight. The casing shall be fitted with a 18″ x 30″ hinged door for access to spray chamber. This door shall consist of a rigid cast iron frame fitted with three glass panels. The door shall be hung on heavy hinges and shall clamp against a heavy rubber gasket inserted in the frame that carries the door. To make the door watertight, it shall be provided with six latches operating with a cam motion. The frame shall be arranged to collect any water that may drip from the door, and return same to tank, should the door be left unclamped.

Eliminators. There shall be provided eliminator plates to remove the entrained moisture from the air after it has passed through the spray chamber. These eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall be not lighter than 22 gauge steel and shall be galvanized after they have been cut and formed to shape. The plates are to be so arranged that a large part of the surface will become a washing surface for the removal of dust that impinges upon them. The eliminators shall consist of one group in the direction of the flow of air and be so arranged that the passage way between two plates shall be continuous.

Spray Device. The spray device shall consist of a horizontal header placed across the bottom of the spray chamber and fitted with vertical risers so placed as to bring the spray nozzles, secured to the risers, in a plane parallel to and at a distance of 48″ in front of the eliminators. The upper ends of the risers shall be capped with a special cap that will permit fastening to a galvanized angle iron across the top of the spray chamber, thus holding the risers securely in line. There shall be not less than one atomizing nozzle for each 400 cubic feet of air washed per minute. The nozzles shall be constructed entirely of bronze and shall have large water ways to prevent clogging of the nozzles by sediment carried in the water. The nozzle openings shall be not less than 3-16″ in diameter, and shall discharge not more than 1¼ gals. per minute with 19 pounds pressure per square inch. All piping and fittings shall be heavily galvanized. For washers of 8′ height and under, 1″ risers shall be used; for washers over 8′ in height, 1¼″ risers shall be used.

In addition to the atomizing nozzles, there shall be furnished a spray pipe across the top of the spray chamber adjacent to the eliminator plates. These nozzles shall be of the rain-spray type, shall be placed 6″ on centers and shall have capacity to wash each foot of width of the eliminators with not less than five gallons of water per minute.

Strainer. The straining device shall consist of a compartment extending the full width of the tank and shall be fitted with fine mesh copper wire screens arranged for easy removal for cleaning. There shall be two square feet of strainer area for each foot in width of the tank. The top of the compartment shall be closed with hinged doors to prevent dirt washed from the air falling into it.

Diffuser Plates. Across the front of the spray chamber shall be placed a series of louvre like diffuser plates to eliminate eddy currents and to prevent back splash of the spray washer. The washer shall be so designed that when the fan is not in operation, the spray water will be entirely retained within the spray chamber when the pump is running.

Pump and Motor. For recirculating the spray water, there shall be furnished a .... centrifugal pump of the double suction, split casing type. The pump to be furnished with a bronze impeller, bronze covered steel shaft and bronze bushings. The bearings shall be of the ring oiling type. Heavy cast-iron base shall be furnished upon which to mount the pump and motor. An oil groove shall extend completely around the cast-iron base. The pump will be driven by the motor through an insulated flexible coupling.

The motor shall be of .... horse power, capacity at .... R.P.M. and designed to operate on current of the following characteristics:...........................

....

Accessories. Where necessary a suitable starter will be furnished with the motor.

A 5″ diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer.

A bronze float for maintaining constant water level in the tank will be furnished with the washer.

The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

Note. Pipe connections will be fitted to the washers for connecting the pump suction and discharge to the strainer compartment and to the spray headers respectively. The contractor is to furnish between the washer and pump galvanized piping in accordance with the washer manufacturer's drawings.

STURTEVANT AIR WASHER—TYPE "H"

EXPLANATION OF SPECIFICATION REQUIREMENTS

Length of Washer. For the most efficient humidifying and cooling service, an air washer must be so designed that the air and water will be in intimate contact for a considerable period of time. To accomplish this, in the Sturtevant Type "H" Air Washer, the spray chamber is over five feet long. The nozzles are over four feet from the eliminators and the total length of the washer is seven feet.

Tank. The tank of the Sturtevant Washer is constructed of No. 14 gauge metal, which is heavier than the tanks of the washers manufactured by most companies. Experience has proved that the tank should be constructed in an exceptionally rigid manner as it is usually required to contain several thousand pounds of water and in addition to support the chamber of the spray casing.

Trap. The running trap inserted in the overflow of the Sturtevant Air Washer tank completely eliminates any possibility of the fan sucking odors and gases from the drain pipe.

Inspection Door. The cast-iron door with glass panels fitted to the casing, is of ample size to permit easy access to the spray chamber. The rigid form prevents warping and eliminates the cracking of the glass. The heavy hinges assure that breakage will not occur from slamming of the door or from abuse.

Eliminators. The projecting lips of the horizontal lip perforated baffles or eliminators cut the air into many streams bringing all the air into contact with the wet surfaces upon which the dirt in the air is deposited. The open construction of these baffle plates causes them to be continually washed clean and drained.

Spray Device. The spray device of the Sturtevant Type "H" Washer consists of not less than one nozzle for every 400 cubic feet of air washed per minute. This guarantees that the spray chamber is filled with a uniform dense spray and assures the thorough wetting of the air. The washing of the eliminators by supplementary nozzles makes certain that the surfaces will be continually wet to cause the adherance of the dust particles.

Pump. The recirculating pump is of the double suction enclosed impeller type. It is bronze fitted throughout to give the maximum service and wear. The split casing permits the removal of bearings, shaft or impeller without disturbing the water connection. These pumps are especially rigid and assure permanent alignment and proper operation.

Lighting Fixture. The water proof marine type electric fixture insures that the interior of the washer is properly lighted at all times making the inspection easy and thorough.

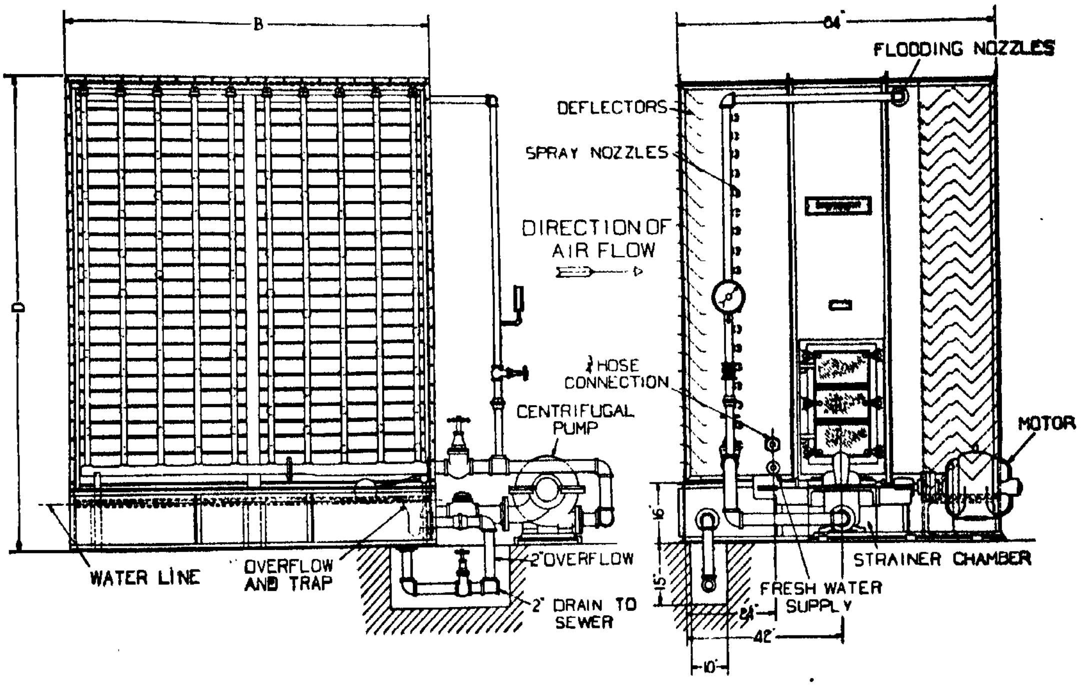
Data Sturtevant Air Washers—Type "H"

(Atomizing Type, 7 Feet Long).

Capacity C. F. P. M.	Size	Total Width	Total Height	Pump		Gallons per Minute	H. P. Motor		R.P.M.	Weight in Pounds		Size
	Width Height			Disch. in inches	Suction in inches		A.C.	D.C.		Pulley Pump	Electric Pump	Width Height
3600–4500	3 x 3	3'-3⅛"	4'-1 9/16"	1½	2	38	2	2	1750	1465	2000	3 x 3
4800–6000	3 x 4	3'-3⅛"	5'-1 9/16"	1½	2	46	3	2½	1750	1660	2280	3 x 4
6000–7500	3 x 5	3'-3⅛"	6'-1 9/16"	1½	2	53	3	3	1750	1835	2540	3 x 5
7200–9000	3 x 6	3'-3⅛"	7'-1 9/16"	1½	2	61	3	3	1750	2080	2820	3 x 6
6400–8000	4 x 4	4'-3⅛"	5'-1 9/16"	1½	2	58	3	3	1750	1990	2620	4 x 4
8000–10000	4 x 5	4'-3⅛"	6'-1 9/16"	1½	2	68	3	3	1750	2220	2900	4 x 5
9600–12000	4 x 6	4'-3⅛"	7'-1 11/16"	2	2½	77	3	3	1750	2440	3180	4 x 6
11200–14000	4 x 7	4'-3⅛"	8'-1 9/16"	2	2½	87	3	3	1750	2640	3500	4 x 7
8000–10000	5 x 4	5'-3⅛"	5'-1 9/16"	1½	2	71	3	3	1750	2340	2960	5 x 4
10000–12500	5 x 5	5'-3⅛"	6'-1 9/16"	2	2½	83	3	3	1750	2570	3260	5 x 5
12000–15000	5 x 6	5'-3⅛"	7'-1 9/16"	2	2½	94	5	4	1750	2820	3600	5 x 6
14000–17500	5 x 7	5'-3⅛"	8'-1 9/16"	2	2½	105	5	4	1750	3020	3900	5 x 7
16000–20000	5 x 8	5'-3⅛"	9'-1 9/16"	2	2½	116	5	5	1750	3260	4200	5 x 8
18000–22500	5 x 9	5'-3⅛"	10'-1 9/16"	2½	3	128	5	5	1750	3300	4500	5 x 9
12000–15000	6 x 5	6'-3⅛"	6'-1 9/16"	2	2½	97	5	4	1750	2920	3620	6 x 5
14400–18000	6 x 6	6'-3⅛"	7'-1 9/16"	2	2½	110	5	5	1740	3180	3980	6 x 6
16800–21000	6 x 7	6'-3⅛"	8'-1 9/16"	2½	3	124	5	5	1750	3420	4320	6 x 7
19200–24000	6 x 8	6'-3⅛"	9'-1 9/16"	2½	3	136	5	5	1750	3680	4700	6 x 8
21600–27000	6 x 9	6'-3⅛"	10'-1 9/16"	2½	3	150	5	5	1750	3960	5000	6 x 9
24000–30000	6 x 10	6'-3⅛"	11'-1 9/16"	2½	3	162	5	5	1750	4200	5350	6 x 10
16800–21000	7 x 6	7'-3⅛"	7'-1 9/16"	2½	3	127	5	5	1750	3560	4400	7 x 6
19600–24500	7 x 7	7'-3½"	8'-1 9/16"	2½	3	142	5	5	1750	3800	4750	7 x 7
22400–28000	7 x 8	7'-3⅛"	9'-1 9/16"	2½	3	157	5	5	1750	4080	5120	7 x 8
25200–31500	7 x 9	7'-3⅛"	10'-1 9/16"	2½	3	172	7½	6	1750	4380	5460	7 x 9
28000–35000	7 x 10	7'-3⅛"	11'-1 9/16"	3	4	187	7½	6	1150	4620	5820	7 x 10
19200–24000	8 x 6	8'-3⅛"	7'-1 9/16"	2½	3	154	5	5	1750	3920	4800	8 x 6
22400–28000	8 x 7	8'-3⅛"	8'-1 9/16"	2½	3	173	7½	6	1750	4200	5150	8 x 7
25600–32000	8 x 8	8'-3⅛"	9'-1 9/16"	3	4	192	7½	6	1150	4500	5550	8 x 8
28800–36000	8 x 9	8'-3⅛"	10'-1 9/16"	3	4	211	7½	7	1150	4800	5950	8 x 9
32000–40000	8 x 10	8'-3⅛"	11'-1 9/16"	3	4	229	7½	7½	1150	5100	6300	8 x 10
28800–36000	9 x 8	9'-3⅛"	9'-1 9/16"	3	4	212	7½	7	1150	5000	6000	9 x 8
32400-40500	9 x 9	9'-3⅛"	10'-1 9/16"	3	4	233	7½	7½	1150	5230	6400	9 x 9
36000–45000	9 x 10	9'-3⅛"	11'-1 9/16"	3	4	253	7½	7½	1150	5500	6800	9 x 10
32000–40000	10 x 8	10'-3⅛"	9'-1 9/16"	3	4	233	7½	7½	1150	5320	6430	10 x 8
36000–45000	10 x 9	10'-3⅛"	10'-1 9/16"	3	4	255	7½	7½	1150	5660	6900	10 x 9
40000–50000	10 x 10	10'-3⅛"	11'-1 9/16"	4	5	278	7½	7½	1150	5980	7300	10 x 10
35200–44000	11 x 8	11'-3⅛"	9'-1 9/16"	3	4	253	7½	7½	1150	5700	6900	11 x 8
39600–49500	11 x 9	11'-3⅛"	10'-1 9/16"	4	5	278	7½	7½	1150	6050	7400	11 x 9
44000–55000	11 x 10	11'-3⅛"	11'-1 9/16"	4	5	302	10	9	1150	6420	7800	11 x 10
38400–48000	12 x 8	12'-3⅛"	9'-1 9/16"	3	4	265	7½	7½	1150	6100	7320	12 x 8
43200–54000	12 x 9	12'-3⅛"	10'-1 9/16"	4	5	290	10	9	1150	6500	7800	12 x 9
48000–60000	12 x 10	12'-3⅛"	11'-1 9/16"	4	5	315	10	10	1150	6860	8280	12 x 10
41600–52000	13 x 8	13'-3⅛"	9'-1 9/16"	4	5	298	10	10	1150	6540	7800	13 x 8
46800–58500	13 x 9	13'-3⅛"	10'-1 9/16"	4	5	328	10	10	1150	6960	8280	13 x 9
52000–65000	13 x 10	13'-3⅛"	11'-1 9/16"	4	5	358	10	10	1150	7330	8760	13 x 10
44800–56000	14 x 8	14'-3⅛"	9'-1 9/16"	4	5	318	10	10	1150	6960	8220	14 x 8
50400–63000	14 x 9	14'-3⅛"	10'-1 9/16"	4	5	350	10	10	1150	7400	8700	14 x 9
56000–70000	14 x 10	14'-3⅛"	11'-1 9/16"	4	5	382	10	10	1150	7750	9300	14 x 10
48000–60000	15 x 8	15'-3⅛"	9'-1 9/16"	4	5	338	10	10	1150	7320	8640	15 x 8
54000–67500	15 x 9	15'-3½"	10'-1 9/16"	4	5	372	10	10	1150	7800	9180	15 x 9
60000-75000	15 x 10	15'-3⅛"	11'-1 9/16"	4	5	406	15	12	1150	8150	9700	15 x 10
51200–64000	16 x 8	16'-3⅛"	9'-1 9/16"	4	5	358	10	10	1150	7730	9050	16 x 8
57600–72000	16 x 9	16'-3⅛"	10'-1 9/16"	4	5	394	10	10	1150	8220	9660	16 x 9
64000–80000	16 x 10	16'-3½"	11'-1 9/16"	4	5	428	15	12	1150	8650	10250	16 x 10
54400–68000	17 x 8	17'-3⅛"	9'-1 9/16"	4	5	377	10	10	1150	8160	9550	17 x 8
61200–76500	17 x 9	17'-3⅛"	10'-1 9/16"	4	5	414	15	12	1150	8700	10100	17 x 9
68000–85000	17 x 10	17'-3⅛"	11'-1 9/16"	4	5	452	15	12	1150	9050	10750	17 x 10
57600–72000	18 x 8	18'-3⅛"	9'-1 9/16"	4	5	410	15	12	1150	8580	9950	18 x 8
64800–81000	18 x 9	18'-3⅛"	10'-1 9/16"	4	5	452	15	12	1150	9050	10500	18 x 9
72000–90000	18 x 10	18'-3⅛"	11'-1 9/16"	5	6	493	15	14	1150	9530	11200	18 x 10
60800–76000	19 x 8	19'-3⅛"	9'-1 9/16"	4	5	430	15	12	1150	9000	10400	19 x 8
68400–85500	19 x 9	10'-3⅛"	10'-1 9/16"	5	6	474	15	14	1150	9500	11100	19 x 9
76000–95000	19 x 10	19'-3⅛"	11'-1 9/16"	5	6	517	15	15	1150	9960	11700	19 x 10
64000–80000	20 x 8	20'-3⅛"	9'-1 9/16"	4	5	450	15	12	1150	9360	10900	20 x 8
72000–90000	20 x 9	20'-3⅛"	10'-1 9/16"	5	6	495	15	14	1150	9900	11500	20 x 9
80000–100000	20 x 10	20'-3⅛"	11'-1 9/16"	5	6	540	15	15	1150	10400	12200	20 x 10
67200–84000	21 x 8	21'-3½"	9'-1 9/16"	5	6	470	15	14	1150	9800	11300	21 x 8
75600–94500	21 x 9	21'-3⅛"	10'-1 9/16"	5	6	518	15	14	1150	10400	12000	21 x 9
84000–105000	21 x 10	21'-3⅛"	11'-1 9/16"	5	6	566	15	15	1150	10800	12650	21 x 10
70400–88000	22 x 8	22'-3⅛"	9'-1 9/16"	5	6	490	15	14	1150	10200	11750	22 x 8
79200–98000	22 x 9	22'-3⅛"	10'-1 9/16"	5	6	540	15	15	1150	10800	12400	22 x 9
88000–110000	22 x 10	22'-3⅛"	11'-1 9/16"	5	6	587	15	15	1150	11300	13200	22 x 10

Sturtevant Air Washer—Type "H"

DIMENSIONS



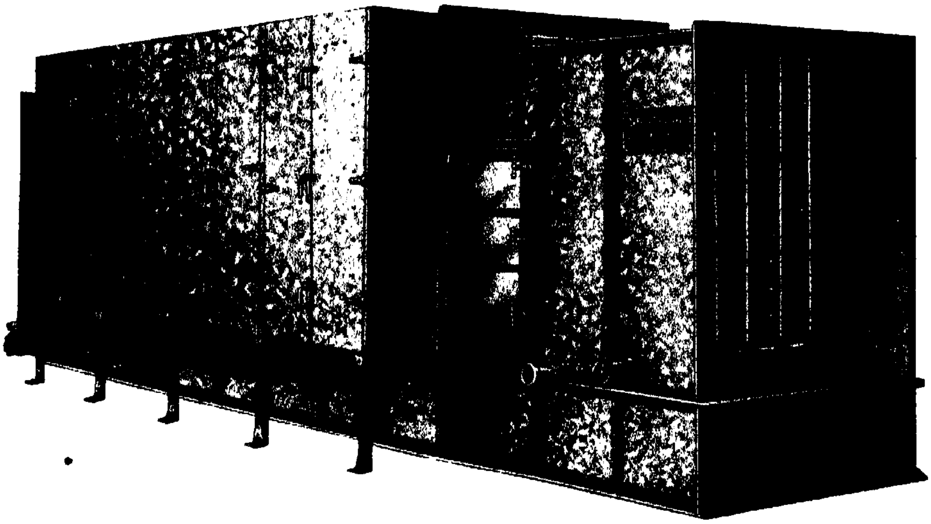
Dimensions B and D are given in third and fourth columns of table on opposite page.

If the pump is placed as indicated above, the additional width required for the pump* and piping is as follows:

Pump Discharge*	Minimum Additional Width
1½"	2'-6"
2"	3'-0"
2½"	3'-6"
3"	4' 0"
4"	4'-6"
5"	5'-0"

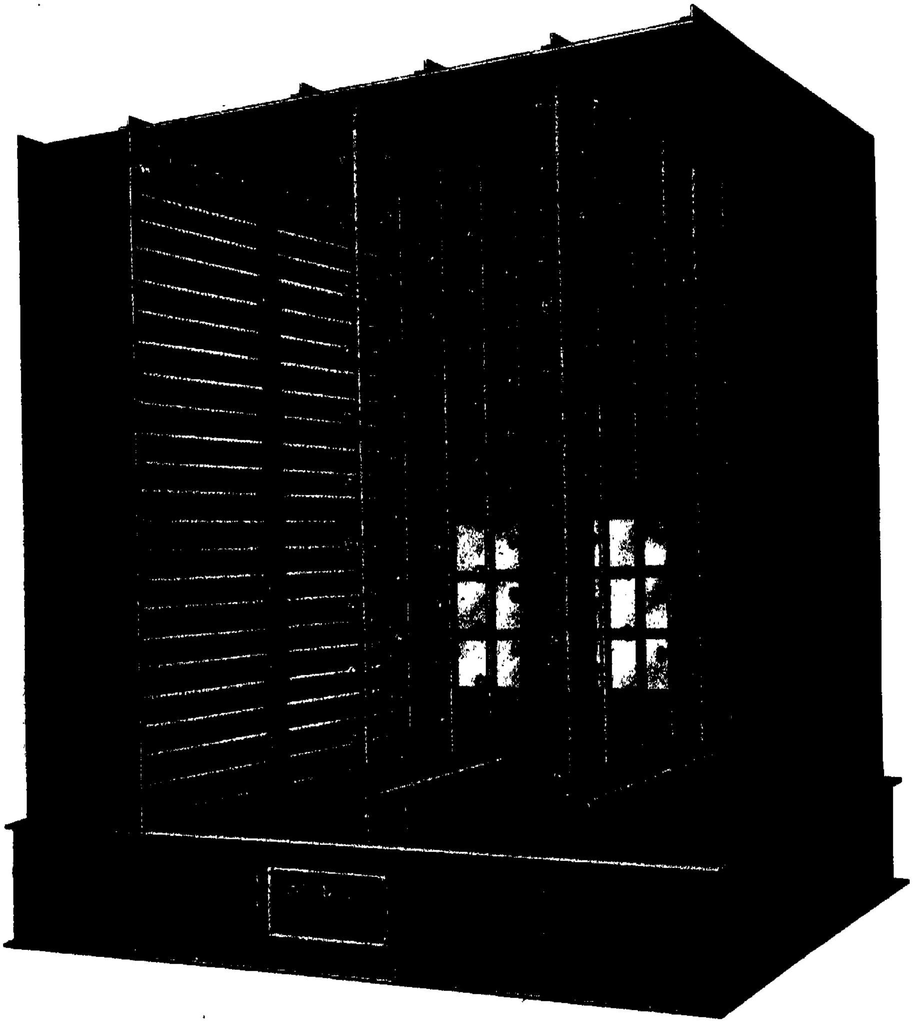
*The size of pump necessary for any size of air washer is given in column 5 of table on opposite page.

Sturtevant Dehumidifier and Air Cooler



Sturtevant Dehumidifier and Air Cooler

Sturtevant Air Washer—Type "C"



Sturtevant Type "C" Air Washer with Side and Baffles Removed. Type "H" Air Washer is the same except that it has only one set of spray pipes and one door

STURTEVANT AIR WASHER—TYPE "C"

SPECIFICATIONS

General. There shall be furnished a..... by ..... size Type "C" Sturtevant Air Washer. The width of the washer shall be ...... feet ...... inches by a height ...... feet ...... inches. The length of the washer in direction of flow of air shall be 9 feet 0 inches.

The air washer shall have a capacity of ..... cubic feet of air per minute at a velocity of ..... feet per minute.

Tank. The tank shall be constructed of galvanized steel firmly braced and riveted to a rigid frame of galvanized angle irons. The plates of the tank shall be of No. 14 guage, the angle irons shall be 1½" by 1½" by 3-16" and shall be spaced not more than three feet apart. The top framing angles are to be punched 5" on centers for 3-8" bolts to secure the casing of the spray chamber to the tank. All rivet heads and seams shall be soldered over to make the tank water tight. The tank shall be fitted with a conical shaped overflow and trap which shall carry away the surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain to the spray chamber.

Casing. The casing of the washer shall be made of No. 18 galvanized steel thoroughly braced with 1½" by 1½" by 3-16" galvanized angle irons, spaced not more than three feet on centers. The seams and rivet heads are to be soldered so as to make the casing watertight. The casing shall be fitted with two 18" x 30" hinged doors for access to the spray chamber. The doors shall consist of a rigid cast-iron frame fitted with three glass panels and shall be hung on heavy hinges and shall clamp against a heavy rubber gasket inserted in the frame that carries the door. To make the doors watertight, they shall each be provided with six latches operating with a cam motion. The frames shall be arranged to collect any water that may drip from the doors, and return same to tank, should the doors be left unclamped.

Eliminators. There shall be provided eliminator plates to remove the entrained moisture from the air after it has passed through the spray chamber. These eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall not be lighter than No. 22 gauge steel and shall be galvanized after they have been cut and formed to shape. The plates are to be so arranged that a large part of the surface will become a washing surface for the removal of dust that impinges upon them. The eliminators shall consist of one group in the direction of the flow of air and be so arranged that the passage way between two plates shall be continuous.

Spray Device. The spray device shall consist of two horizontal headers placed across the bottom of the spray chamber and fitted with vertical risers so placed as to bring the spray nozzles, secured to the risers, in planes parallel to and at distances of 39" and 75" in front of the eliminators respectively. The upper ends of the risers shall be capped with a special cap that will permit fastening to a galvanized angle iron across the top of the spray chamber, thus holding the risers securely in line. There shall be not less than one atomizing nozzle for each 200 feet of cubic air washed per minute. The nozzles shall be constructed entirely of bronze and shall have large waterways to prevent clogging of the nozzles by sediment carried in the water. The nozzle openings shall be not less than 3-16" in diameter, and shall discharge not more than 1¼ gallons per minute with 19 pounds pressure per square inch. All piping and fittings shall be heavily galvanized. For washers of 8' height and under, 1" risers shall be used; for washers over 8' in height, 1¼" risers shall be used. In addition to the atomizing nozzles, there shall be furnished a spray pipe across the top of the spray chamber adjacent to the eliminator plates. These nozzles shall be of the rain-spray type, shall be placed 6″ on centers and shall have capacity to wash each foot of width of the eliminators with not less than five gallons of water per minute.

Strainer. The straining device shall consist of a compartment extending the full width of the tank and shall be fitted with fine mesh copper wire screens arranged for easy removal for cleaning. There shall be two square feet of strainer area for each foot in width of the tank. The top of the compartment shall be closed with hinged doors to prevent dirt washed from the air falling into it.

Diffuser Plates. Across the front of the spray chamber shall be placed a series of louvre like diffuser plates to eliminate eddy currents and to prevent back splash of the spray washer. The washer shall be so designed that when the fan is not in operation, the spray water will be entirely retained within the spray chamber when the pump is running.

Pump and Motor. For recirculating the spray water there shall be furnished a ....centrifugal pump of the double suction, split casing type. The pump to be furnished with a bronze impeller, bronze covered steel shaft and bronze bushings. The bearings shall be of the ring oiling type. Heavy cast-iron base shall be furnished upon which to mount the pump and motor. An oil groove shall extend completely around the cast-iron base. The pump will be driven by the motor through an insulated flexible coupling.

The motor shall be of .... horse power, capacity at .... R.P.M. and designed to operate on a current of the following characteristics:.........................

....

....

Accessories. Where necessary a suitable starter shall be furnished with the motor.

A 5″ diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer.

A bronze float for maintaining constant water level in the tank will be furnished with the washer.

The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

Note. Pipe connections will be fitted to the washers for connecting the pump suction and discharge to the strainer compartment and to the spray headers respectively. The contractor is to furnish between the washer and pump, galvanized piping in accordance with the washer manufacturer's drawings.

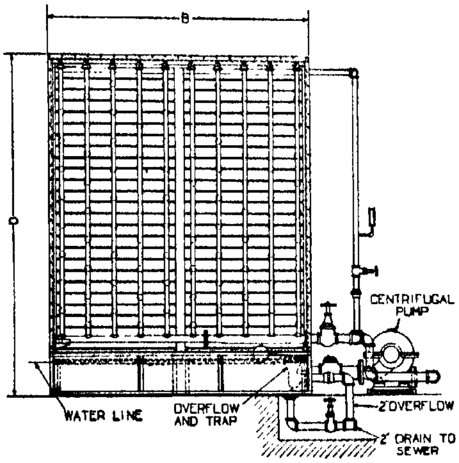
Data Sturtevant Air Washers—Type "C"

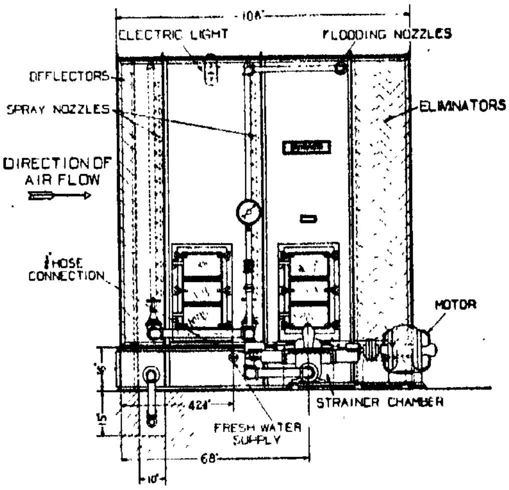
(Cooling Type, 9 Feet Long).

Capacity C. F. P. M.	Size	Total Width	Total Height	Pump		Gallons per Minute	H. P. Motor		R.P.M.	Shipping Weight in Pounds		Size
	Width x Height			Disch. in inches	Suction in inches		A.C.	D.C.		Pulley Pump	Electric Pump	Width x Height
3600-4500	3 x 3	3'-3 1/8"	4' 1 9/16"	1 1/2	2	55	3	2 1/2	1750	1620	2150	3 x 3
4800-6000	3 x 4	3'-3 1/8"	5'-1 9/16"	1 1/2	2	70	3	3	1750	1830	2450	3 x 4
6000-7500	3 x 5	3'-3 1/8"	6'-1 9/16"	2	2 1/2	85	3	3	1750	2050	2740	3 x 5
7200-9000	3 x 6	3'-3 1/8"	7' 1 9/16"	2	2 1/2	100	5	4	1750	2270	3050	3 x 6
6400-8000	4 x 4	4'-3 1/8"	5'-1 9/16"	2	2 1/2	88	5	4	1750	2220	2770	4 x 4
8000-10000	4 x 5	4'-3 1/8"	6'-1 9/16"	2	2 1/2	108	5	4	1750	2460	3180	4 x 5
9600-12000	4 x 6	4' 3 1/8"	7'-1 9/16"	2 1/2	3	126	5	5	1750	2700	3480	4 x 6
11200-14000	4 x 7	4'-3 1/8"	8'-1 9/16"	2 1/2	3	146	5	5	1750	2950	3840	4 x 7
8000-10000	5 x 4	5' 3 1/8"	5'-1 9/16"	2	2 1/2	109	5	4	1750	2550	3550	5 x 4
10000-12500	5 x 5	5'-3 1/8"	6'-1 9/16"	2 1/2	3	132	5	5	1750	2830	3830	5 x 5
12000-15000	5 x 6	5'-3 1/8"	7'-1 9/16"	2 1/2	3	154	5	5	1750	3240	3240	5 x 6
14000-17500	5 x 7	5'-3 1/8"	8'-1 9/16"	2 1/2	3	177	7 1/2	6	1750	3650	4650	5 x 7
16000-20000	5 x 8	5'-3 1/8"	9'-1 9/16"	3	4	200	7 1/2	7	1150	3960	4960	5 x 8
18000-22500	5 x 9	5' 3 1/8"	10'-1 9/16"	3	4	222	7 1/2	7 1/2	1150	4250	5250	5 x 9
12000-15000	6 x 5	6' 3 1/8"	6'-1 9/16"	2 1/2	3	155	5	5	1750	3200	3950	6 x 5
14400-18000	6 x 6	6'-3 1/8"	7'-1 9/16"	2 1/2	3	180	7 1/2	7	1750	3540	4380	6 x 6
16800-21000	6 x 7	6'-3 1/8"	8' 1 9/16"	3	4	208	7 1/2	7	1150	3840	4800	6 x 7
19200-24000	6 x 8	6'-3 1/8"	9'-1 9/16"	3	4	233	7 1/2	7 1/2	1150	4150	5200	6 x 8
21600-27000	6 x 9	6'-3 1/8"	10'-1 9/16"	3	4	258	10	9	1150	4440	5580	6 x 9
24000-30000	6 x 10	6'-3 1/8"	11'-1 9/16"	4	5	285	10	9	1150	4750	5900	6 x 10
16800-21000	7 x 6	7' 3 1/8"	7'-1 9/16"	3	1	209	7 1/2	7 1/2	1150	3960	4000	7 x 6
19600-24500	7 x 7	7'-3 1/2"	8' 1 9/16"	3	4	239	7 1/2	7 1/2	1150	4250	5280	7 x 7
22400-28000	7 x 8	7' 3 1/8"	9'-1 9/16"	3	4	269	10	10	1150	4600	5700	7 x 8
25200-31500	7 x 9	7'-3 1/8"	10'-1 9/16"	4	5	299	10	10	1150	4920	6100	7 x 9
28000-35000	7 x 10	7' 3 1/8"	11'-1 9/16"	4	5	329	10	10	1150	5200	6500	7 x 10
19200-24000	8 x 6	8'-3 1/8"	7' 1 9/16"	3	4	258	10	9	1150	4480	5280	8 x 6
22400-28000	8 x 7	8'-3 1/8"	8'-1 9/16"	4	5	295	10	10	1150	4750	5760	8 x 7
25600-32000	8 x 8	8'-3 1/8"	9'-1 9/16"	4	5	333	10	10	1150	5100	6240	8 x 8
28800-36000	8 x 9	8'-3 1/8"	10'-1 9/16"	4	5	370	15	12	1150	5460	6700	8 x 9
32000-40000	8 x 10	8'-3 1/8"	11'-1 9/16"	4	5	408	15	14	1150	5800	7200	8 x 10
28800-36000	9 x 8	9'-3 1/8"	9' 1 9/16"	4	5	353	15	12	1150	5580	6700	9 x 8
32400-40500	9 x 9	9'-3 1/8"	10'-1 9/16"	4	5	393	15	14	1150	6000	7200	9 x 9
36000-45000	9 x 10	9'-3 1/8"	11'-1 9/16"	4	5	436	15	14	1150	6350	7750	9 x 10
32000-40000	10 x 8	10'-3 1/8"	9' 1 9/16"	4	5	387	15	14	1150	6060	7250	10 x 8
36000-45000	10 x 9	10' 3 1/8"	10'-1 9/16"	4	5	432	15	14	1150	6450	7800	10 x 9
40000-50000	10 x 10	10'-3 1/8"	11'-1 9/16"	4	5	477	15	15	1150	6750	8350	10 x 10
35200-44000	11 x 8	11'-3 1/8"	9'-1 9/16"	4	5	421	15	14	1150	6600	7800	11 x 8
39600-49500	11 x 9	11'-3 1/8"	10'-1 9/16"	4	5	468	15	15	1150	7000	8400	11 x 9
44000-55000	11 x 10	11'-3 1/8"	11'-1 9/16"	5	6	518	15	15	1150	7500	9000	11 x 10
38400-48000	12 x 8	12'-3 1/8"	9'-1 9/16"	4	5	455	15	15	1150	7000	8250	12 x 8
43200-54000	12 x 9	12'-3 1/8"	10'-1 9/16"	5	6	507	15	15	1150	7500	8900	12 x 9
48000-60000	12 x 10	12'-3 1/8"	11'-1 9/16"	5	6	559	15	15	1150	7950	9350	12 x 10
41600-52000	13 x 8	13' 3 1/8"	9'-1 9/16"	5	6	515	15	15	1150	7500	8750	13 x 8
46800-58500	13 x 9	13'-3 1/8"	10' 1 9/16"	5	6	575	15	15	1150	8050	9500	13 x 9
52000-65000	13 x 10	13'-3 1/8"	11'-1 9/16"	5	6	635	20	18	1150	8500	10200	13 x 10
44800-56000	14 x 8	14'-3 1/8"	9'-1 9/16"	5	6	547	15	15	1150	7950	9300	14 x 8
50400-63000	14 x 9	14'-3 1/8"	10'-1 9/16"	5	6	611	20	18	1150	8500	10000	14 x 9
56000-70000	14 x 10	14'-3 1/8"	11'-1 9/16"	5	6	676	20	20	1150	9100	10600	14 x 10
48000-60000	15 x 8	15'-3 1/8"	9' 1 9/16"	5	6	582	15	15	1150	8450	9850	15 x 8
54000-67500	15 x 9	15'-3 1/2"	10'-1 9/16"	5	6	650	20	18	1150	9000	10500	15 x 9
60000-75000	15 x 10	15'-3 1/8"	11'-1 9/16"	5	6	717	20	20	1150	9650	11200	15 x 10
51200-64000	16 x 8	16'-3 1/8"	9' 1 9/16"	5	6	616	20	18	1150	9000	10300	16 x 8
57600-72000	16 x 9	16'-3 1/8"	10'-1 9/16"	5	6	686	20	20	1150	9600	11200	16 x 9
64000-80000	16 x 10	16'-3 1/2"	11'-1 9/16"	6	7	758	20	20	1150	10200	11800	16 x 10
54400-68000	17 x 8	17'-3 1/8"	9'-1 9/16"	5	6	649	20	18	1150	9300	10800	17 x 8
61200-76500	17 x 9	17'-3 1/8"	10'-1 9/16"	5	6	724	20	20	1150	10000	11700	17 x 9
68000-85000	17 x 10	17'-3 1/8"	11'-1 9/16"	6	7	799	20	20	1150	10600	12500	17 x 10
57600-72000	18 x 8	18'-3 1/8"	9'-1 9/16"	5	6	710	20	20	1150	10000	11400	18 x 8
64800-81000	18 x 9	18'-3 1/8"	10'-1 9/16"	6	7	795	20	20	1150	10600	12200	18 x 9
72000-90000	18 x 10	18' 3 1/8"	11'-1 9/16"	6	7	875	25	22	1150	11300	13000	18 x 10
60800-76000	19 x 8	19'-3 1/8"	9'-1 9/16"	5	6	744	20	20	1150	10400	11900	19 x 8
68400-85500	19 x 9	19'-3 1/8"	10'-1 9/16"	6	7	830	25	22	1150	11100	12800	19 x 9
76000-95000	19 x 10	19'-3 1/8"	11'-1 9/16"	6	7	916	25	22	1150	11800	13700	19 x 1
64000-80000	20 x 8	20'-3 1/8"	9'-1 9/16"	6	7	777	20	20	1150	10850	13000	20 x 8
72000-90000	20 x 9	20'-3 1/8"	10'-1 9/16"	6	7	867	25	22	1150	11550	13300	20 x 9
80000-100000	20 x 10	20'-3 1/8"	11'-1 9/16"	6	7	957	25	24	1150	12300	14200	20 x 1
67200-84000	21 x 8	21'-3 1/8"	9'-1 9/16"	6	7	813	25	22	1150	11300	12900	21 x 8
75600-94500	21 x 9	21'-3 1/8"	10'-1 9/16"	6	7	903	25	24	1150	12000	13900	21 x 9
84000-105000	21 x 10	21'-3 1/8"	11'-1 9/16"	6	7	998	25	25	1150	12900	14900	21 x 1
70400-88000	22 x 8	22'-3 1/8"	9'-1 9/16"	6	7	844	25	22	1150	11800	13400	22 x 8
79200-99000	22 x 9	22'-3 1/8"	10'-1 9/16"	6	7	839	25	24	1150	12600	14400	22 x 9
88000-110000	22 x 10	22'-3 1/8"	11'-1 9/16"	6	7	1039	25	25	1150	13400	15500	22 x 1

Sturtevant Air Washer—Type "C"

DIMENSIONS





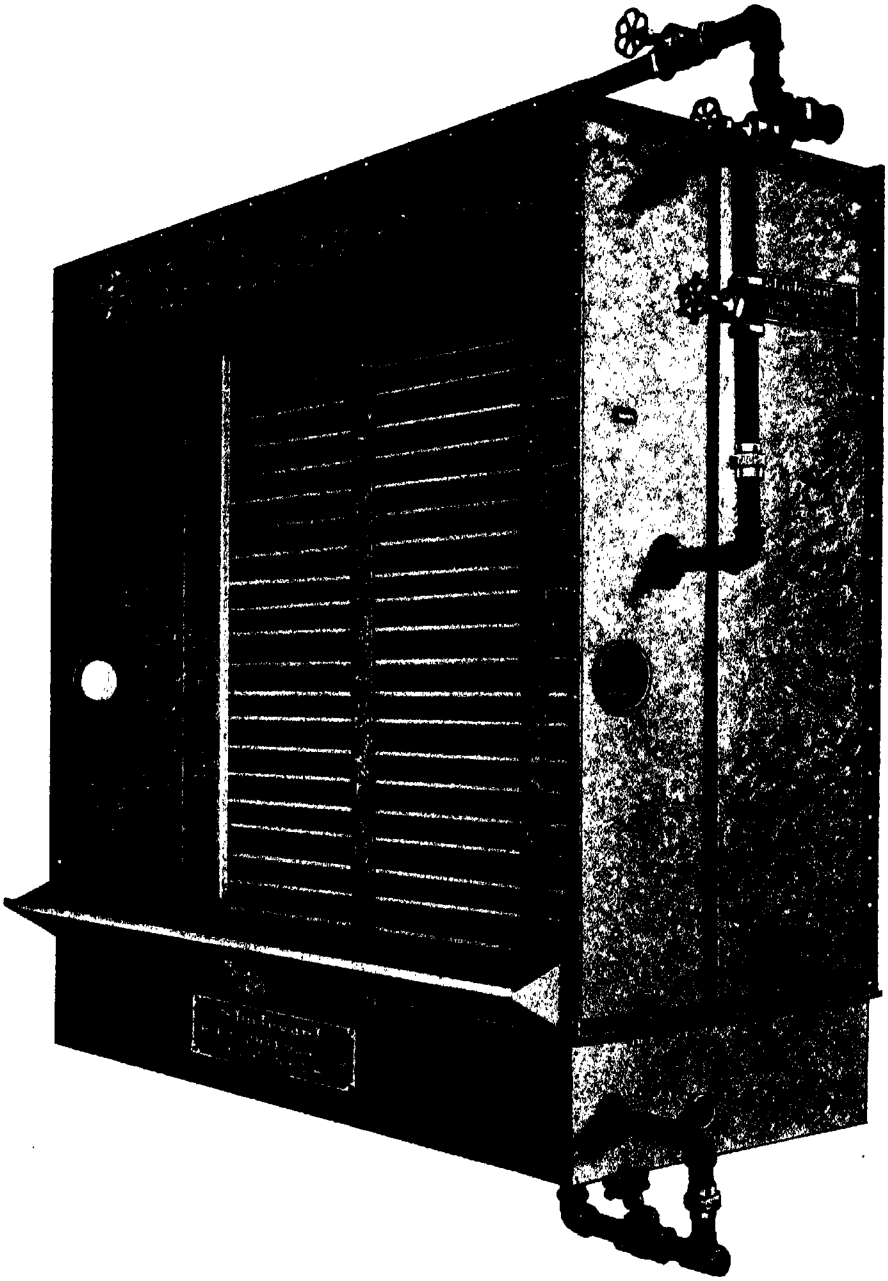
Dimensions B and D are given in third and fourth columns of table on opposite page.

If the pump is installed in the location indicated above, the additional width of floor space required for pump* and piping is as follows:

Pump Discharge*	Minimum Additional Width
1½"	2'-6"
2"	3'-0"
2½"	3'-6"
3"	4'-0"
4"	4'-6"
5"	5'-0"
6"	5'-6"

*The size of pump necessary for any air washer is given in column 5 of table on opposite page.

Sturtevant Air Washer—Type "S"



Sturtevant Type " S " Air Washer

STURTEVANT AIR WASHER—TYPE "S"

SPECIFICATIONS

General. There shall be furnished a..... by ..... size Type "S" Sturtevant Air Washer. The width of the washer shall be ...... feet ...... inches; the height shall be ...... feet ...... inches. The washer shall be 4' 0" long in the direction of the flow of air. The air washer shall have a capacity of ..... cubic feet of air per minute at a velocity of ..... feet per minute.

Tank. The tank shall be constructed of galvanized steel firmly braced to a rigid frame of galvanized angle iron. The plates of the tank shall be of No. 14 guage; the angles shall be 1½" x 1½" x 3-16" and shall be spaced not more than three feet apart. The top framing angles are to be punched 5" on centers for 3-8" bolts to secure the spray chamber casing to the tank. All rivet heads and seams shall be soldered over to make the tank water tight. The tank shall be fitted with a conical shaped overflow and trap to carry away surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain pipe to the spray chamber.

Casing. The casing of the washer shall be made of galvanized steel of No. 18 guage, and thoroughly braced with 1½" x 1½" x 3-16" galvanized angles, spaced not more than three feet apart. All rivet heads and seams shall be soldered to make the casing water tight. A water tight window shall be set in the casing to permit inspection of the spray chamber.

Eliminators. There shall be provided eliminators to remove the entrained moisture from the air after it has passed through the spray chamber. The eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall not be lighter than No. 22 gauge steel and they shall be galvanized after the plates have been cut and formed to shape. It shall be arranged so that a large part of the surface of the plates shall act as a washing surface for the removal of dust that impinges upon the plates. The eliminators shall consist of one group in the direction of the flow of air.

Spray Device. The spray device shall consist of a loop formed of two pipes into which are secured the spray nozzles. This loop shall be connected at both ends to the discharge line from the recirculating pump. One row of spray nozzles shall be arranged te direct the spray on to the eliminators for the purpose of washing to the tank any dirt adhering to the plates. The nozzles shall be of brass or bronze composition and shall have not less than a 3-16" orifice. The spacing of the nozzles shall not be more than 6" center to center. The orifice of the nozzle shall be unobstructed, except for an overhanging deflector for breaking the water into fine spray. Each nozzle shall discharge approximately 3 gallons of water per minute with 12 pounds pressure.

Strainer. A double cylindrical brass strainer shall be fitted to the tank to prevent matter liable to clog the water passages entering the system. The screens shall consist of perforated brass sheets with the perforations of the outer sheet 1-10" diameter and those of the inner 1-16" diameter, The screens shall be riveted to frames of non-corroding metal. One frame shall be secured to the pump suction connection; while the other shall be fitted with a hinged door. The strainer shall be easily removable for cleaning and shall not require the use of bolts or clamp to secure it in place.

Pump and Motor. For recirculating the spray water there shall be furnished with the air washer a centrifugal pump, bronze fitted and mounted on an extended base upon which will be mounted the electric motor which shall drive the pump through a flexible coupling. The motor shall be of .... horse power, at .... R.P.M. and shall be designed to operate on a current of the following characteristics:........

....

....

Accessories. Where necessary a suitable starter shall be furnished with the motor. A 5″ diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer. A bronze float valve for maintaining constant water level in the tank shall be furnished with the washer. The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

Note. Pipe connections shall be fitted to the washer for connecting the pump suction and discharge to the strainers and to the spray device. The contractor is to furnish between the washer and pump galvanized piping in accordance with the washer manufacturer's drawings.

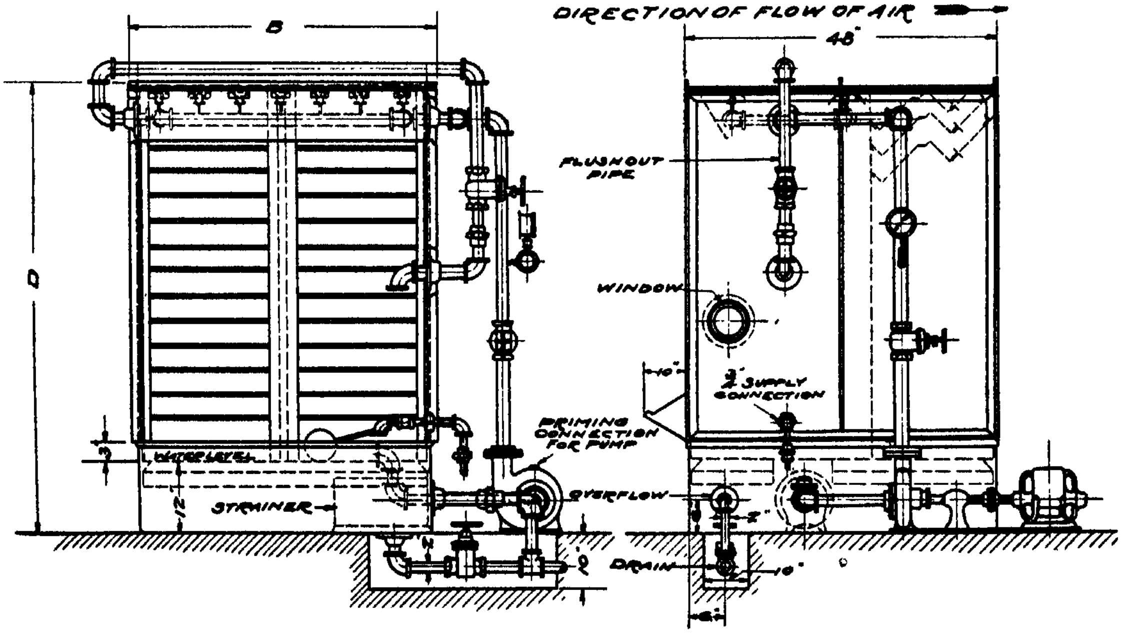
Data Sturtevant Air Washer—Type "S"

(Rain Spray Type, 4 Feet Long).

Capacity C.F.P.M.	Size		Total Width B	Total Height D	Pump		Gallons per Minute	H. P. Motor		R.P.M.	Weight in Pounds		Size	
	Width	Height			Disch. in inches	Suction in inches		A.C.	D.C.		Pulley Pump	Electric Pump	Width	Height
3600–4500	3	x 3	3′-3⅛″	4′-1 11/16″	1¼	2	35	1	1	1750	1000	1440	3	x 3
4800–6000	3	x 4	3′-3⅛″	5′-1 11/16″	1¼	2	35	1	1	1750	1120	1530	3	x 4
6000–7500	3	x 5	3′-3⅛″	6′-1 11/16″	1¼	2	35	1	1	1750	1220	1630	3	x 5
7200–9000	3	x 6	3′-3⅛″	7′-1 11/16″	1¼	2	35	1	1	1750	1320	1740	3	x 6
6400–8000	4	x 4	4′-3⅛″	5′-1 11/16″	1½	2	50	1½	1½	1750	1270	1690	4	x 4
8000–10000	4	x 5	4′-3⅛″	6′-1 11/16″	1½	2	50	1½	1½	1750	1390	1800	4	x 5
9600–12000	4	x 6	4′-3⅛″	7′-1 11/16″	1½	2	50	1½	1½	1750	1560	1980	4	x 6
1200–14000	4	x 7	4′-3⅛″	8′-1 11/16″	1½	2	50	1½	1½	1750	1670	2100	4	x 7
8000–10000	5	x 4	5′-3⅛″	5′-1 11/16″	1½	2	60	2	2	1750	1500	1900	5	x 4
0000–12500	5	x 5	5′-3⅛″	6′-1 11/16″	1½	2	60	2	2	1750	1600	2030	5	x 5
2000–15000	5	x 6	5′-3⅛″	7′-1 11/16″	1½	2	60	2	2	1750	1740	2150	5	x 6
4000–17500	5	x 7	5′-3⅛″	8′-1 11/16″	1½	2	60	2	2	1750	1980	2400	5	x 7
6000–20000	5	x 8	5′-3⅛″	9′-1 11/16″	1½	2	60	2	2	1750	2100	2520	5	x 8
2000–15000	6	x 5	6′-3⅛″	6′-1 11/16″	2	2½	75	3	2½	1200	1800	2220	6	x 5
4400–18000	6	x 6	6′-3⅛″	7′-1 11/16″	2	2½	75	3	2½	1200	2050	2460	6	x 6
6800–21000	6	x 7	6′-3⅛″	8′-1 11/16″	2	2½	75	3	2½	1200	2180	2600	6	x 7
9200–24000	6	x 8	6′-3⅛″	9′-1 11/16″	2	2½	75	3	2½	1200	2450	2870	6	x 8
21600–27000	6	x 9	6′-3⅛″	10′-1 11/16″	2	2½	75	3	2½	1200	2600	3000	6	x 9
16800–21000	7	x 6	7′-3⅛″	7′-1 11/16″	2	2½	90	3	3	1200	2160	2580	7	x 6
9600–24500	7	x 7	7′-3⅛″	8′-1 11/16″	2	2½	90	3	3	1200	2400	2880	7	x 7
22500–28000	7	x 8	7′-3⅛″	9′-1 11/16″	2	2½	90	3	3	1200	2630	3050	7	x 8
25200–31500	7	x 9	7′-3⅛″	10′-1 11/16″	2	2½	90	3	3	1200	2680	3280	7	x 9
19200–24000	8	x 6	8′-3⅛″	7′-1 11/16″	2	2½	100	3	3	1200	2500	3130	8	x 6
22400–28000	8	x 7	8′-3⅛″	8′-1 11/16″	2	2½	100	3	3	1200	2700	3340	8	x 7
25600–32000	8	x 8	8′-3⅛″	9′-1 11/16″	2	2½	100	3	3	1200	2900	3540	8	x 8
28800–36000	8	x 9	8′-3⅛″	10′-1 11/16″	2	2½	100	3	3	1200	3120	3770	8	x 9
32000–40000	8	x 10	8′-3⅛″	11′-1 11/16″	2	2½	100	3	3	1200	3340	3960	8	x 10
28800–36000	9	x 8	9′-3⅛″	9′-1 11/16″	3	4	190	5	5	1200	2900	3540	9	x 8
32400–40500	9	x 9	9′-3⅛″	10′-1 11/16″	3	4	190	5	5	1200	3400	4050	9	x 9
36000–45000	9	x 10	9′-3⅛″	11′-1 11/16″	3	4	190	5	5	1200	3560	4190	9	x 10
32000–40000	10	x 8	10′-3⅛″	9′-1 11/16″	3	4	230	7½	6	1200	3400	4070	10	x 8
36000–45000	10	x 9	10′-3⅛″	10′-1 11/16″	3	4	230	7½	6	1200	3640	4260	10	x 9
40000–50000	10	x 10	10′-3⅛″	11′-1 11/16″	3	4	230	7½	6	1200	3850	4500	10	x 10
38400–48000	12	x 8	12′-3⅛″	9′-1 11/16″	3	4	280	7½	7½	1200	3800	4420	12	x 8
43200–54000	12	x 9	12′-3⅛″	10′-1 11/16″	3	4	280	7½	7½	1200	3900	5150	12	x 9
48000–60000	12	x 10	12′-3⅛″	11′-1 11/16″	3	4	280	7½	7½	1200	4500	5500	12	x 10
44800–56000	14	x 8	14′-3⅛″	9′-1 11/16″	4	5	310	7½	7½	1200	4220	5400	14	x 8
50400–63000	14	x 9	14′-3⅛″	10′-1 11/16″	4	5	310	7½	7½	1200	4700	5600	14	x 9
56000–70000	14	x 10	14′-3⅛″	11′-1 11/16″	4	5	310	7½	7½	1200	5000	6030	14	x 10
48000–60000	15	x 8	15′-3⅛″	9′-1 11/16″	4	5	340	10	9	1200	4600	5870	15	x 8
54000–67500	15	x 9	15′-3⅛″	10′-1 11/16″	4	5	340	10	9	1200	4920	6000	15	x 9
60000–75000	15	x 10	15′-3⅛″	11′-1 11/16″	4	5	340	10	9	1200	5200	6260	15	x 10
51200–64000	16	x 8	16′-3⅛″	9′-1 11/16″	4	5	360	10	9	1200	4780	5820	16	x 8
57600–72000	16	x 9	16′-3⅛″	10′-1 11/16″	4	5	360	10	9	1200	5140	6200	16	x 9
64000–80000	16	x 10	16′-3⅛″	11′ 1 11/16″	4	5	360	10	9	1200	5750	6920	16	x 10
57600–72000	18	x 8	18′-3⅛″	9′-1 11/16″	4	5	400	10	10	1200	5520	6700	18	x 8
64800–81000	18	x 9	18′-3⅛″	10′-1 11/16″	4	5	400	10	10	1200	5900	7080	18	x 9
72000–90000	18	x 10	18′-3⅛″	11′-1 11/16″	4	5	400	10	10	1200	6260	7650	18	x 10
64000–80000	20	x 8	20′-3⅛″	9′-1 11/16″	4	5	450	12½	12	1200	5920	7080	20	x 8
72000–90000	20	x 9	20′-3⅛″	10′-1 11/16″	4	5	450	12½	12	1200	6550	7750	20	x 9
80000–100000	20	x 10	20′-3⅛″	11′-1 11/16″	4	5	450	12½	12	1200	6900	8160	20	x 10
70400–88000	22	x 8	22′-3⅛″	9′-1 11/16″	4	5	500	12½	12½	1200	6720	8000	22	x 8
79200–99000	22	x 9	22′-3⅛″	10′-1 11/16″	4	5	500	12½	12½	1200	7000	8300	22	x 9
88000–110000	22	x 10	22′-3⅛″	11′-1 11/16″	4	5	500	12½	12½	1200	7400	8800	22	x 10

Sturtevant Air Washer—Type "S"

DIMENSIONS



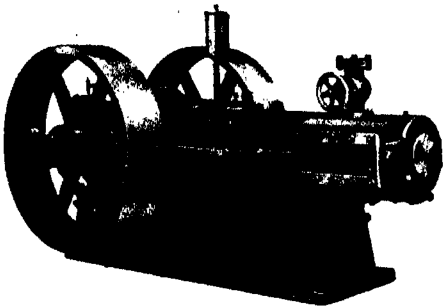
Dimensions B and D are given in third and fourth columns of table on previous page.

If the pump is installed in the location indicated above, the additional width of floor space required for pump* and piping is as follows:

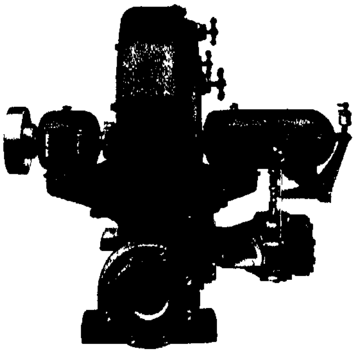
Pump Discharge*	Minimum Additional Width
1½"	2'-6"
2"	3'-0"
2½"	3'-6"
3"	4'-0"
4"	4'-6"
5"	5'-0"
6"	5'-6"

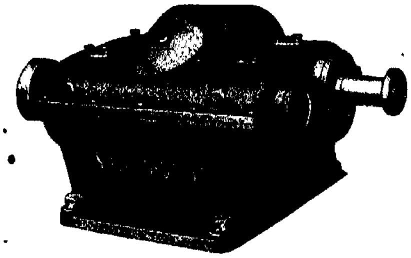
* The size of pump necessary for any air washer is given in column 5 of table on previous page.

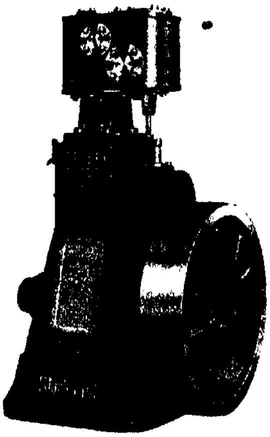
Sturtevant Drivers


HC-1 Engine

Interpole Motor


Steam Turbine


Gear Transmission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